

CITY OF ALEXANDRIA, VIRGINIA



MS4 ANNUAL REPORT PERMIT YEAR 1

JULY 1, 2013 – JUNE 30, 2014 VPDES PERMIT NO. VAR040057

September 30, 2014





Department of Transportation and Environmental Services 2900-B Business Center Drive, Alexandria, VA 22314 703-746-4014

CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Williamsburnelle Dep. Dir. Ifrastructure

Opt. THES

Date

Date



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Prepared by City staff and



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MS4 ANNUAL REPORT

VPDES PERMIT NUMBER VAR040057
PERMIT YEAR 1: JULY 1, 2013 – JUNE 30, 2014



A. INTRODUCTION

This Permit Year 1 (PY1) Annual Report has been prepared by the City of Alexandria Department of Transportation and Environmental Services (T&ES), in accordance with the requirements of the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Storm Water from Municipal Separate Storm Sewer Systems (9VAC 25-890-40). The City was originally issued General Permit VAR040057 on July 8, 2003 and successfully met the requirements over the initial five-year permit period. The Department of Conservation and Recreation (DCR) re-issued the permit on July 9, 2008 for an additional five years, which effectively expired on July 1, 2013. A new permit was issued effective July 1, 2013 through June 30, 2018. The responsibility of administering the new Municipal Separate Storm Sewer Systems (MS4) permit has been transferred from DCR to the Virginia Department of Environmental Quality (DEQ). This PY1 Annual Report constitutes the first report of the new permit and meets all reporting requirements.

During PY1, the City made updates to its MS4 Program Plan to comply with the requirements of the new permit. These updates to the Program Plan included modifications to the following six minimum control measures (MCMs) to achieve the required water quality goals.

- 1. Public Education and Outreach on Stormwater Impacts
- 2. Public Involvement/Participation
- 3. Illicit Discharge Detection and Elimination
- 4. Construction Site Stormwater Runoff Control
- 5. Post-Construction Stormwater Management
- 6. Pollution Prevention/Good Housekeeping for Municipal Operations

The General Permit requires that the City submit annual reports no later than October 1 covering the reporting period of the preceding July 1 through June 30. This PY1 Annual Report covers the period from July 1, 2013 through June 30, 2014. Section II.E.3 of the General Permit outlines the requirements for the annual report:

a. Background Information to include: (1) The name and state permit number of the program submitting the annual report; (2) The annual report permit year; (3) Modifications to any

- operator's department's roles and responsibilities; (4) Number of new MS4 outfalls and associated acreage by HUC added during the permit year; and (5) Signed certification.
- b. The status of compliance with state permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures.
- c. Results of information collected and analyzed, including monitoring data, if any, during the reporting period;
- d. A summary of the stormwater activities the operator plans to undertake during the next reporting cycle.
- e. A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies.
- f. Notice that the operator is relying on another government entity to satisfy some of the state permit obligations (if applicable).
- g. The approval status of any programs pursuant to Section II.C (if appropriate), or the progress towards achieving full approval of these programs.
- h. Information required for any applicable TMDL special condition contained in Section I.

B. BACKGROUND INFORMATION

This section provides background information as required in Section II.E.3.a of the General Permit.

Name of Operator: City of Alexandria

Permit Year: Permit Year 1: July 1, 2013 through June 30, 2014

Permit Number: VAR040057

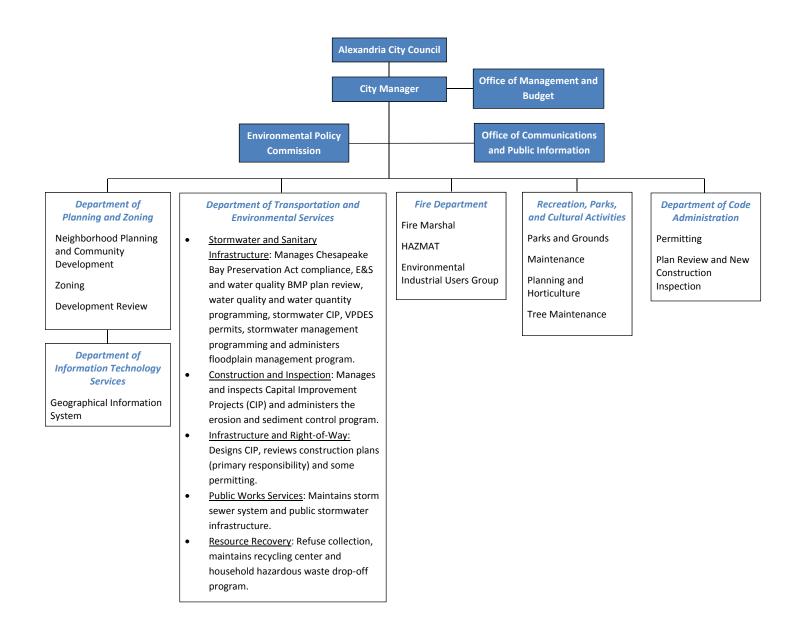
New MS4 Outfalls:

Receiving Water	HUC Code	New Outfalls	Acreage
Potomac River	PL28	None	-
Cameron Run	PL26	None	-
Four Mile Run	PL25	None	-

Modifications to Roles and Responsibilities: None

The Department of Transportation and Environmental Services has primary responsibility for coordinating compliance with the City's MS4 permit. VPDES permit compliance activities are coordinated through the Stormwater and Sanitary Infrastructure Division within the Department of Transportation and Environmental Services (T&ES-S&SI). While T&ES-S&SI is responsible for overall permit coordination, including the submittal of annual reports, several other departments and divisions have important roles in implementing the VPDES permit. The following organizational chart provides a summary of roles and responsibilities.

STORMWATER MANAGEMENT ORGANIZATIONAL CHART



Annual Report

The following City department and division acronyms are used in this Permit Year 1 Annual Report:

- ARE Alexandria Renew Enterprises
- Code Department of Code Administration
- **CWP** Northern Virginia Clean Water Partners
- **ECG** Environmental Coordinating Group (from T&ES, Health Department, FD, RP&CA, P&Z, General Services, Alexandria Renew Enterprises, Alexandria City Public Schools, Virginia American Water, and OCPI)
- **EPC** Environmental Policy Commission
- **EIU** Environmental Industrial Users Group
- FD Fire Department
- **GS-FSD** Department of General Services, Fleet Services Division
- **ITS** Department of Information Technology Services
- ITS-GIS Department of Information Technology Services, Geographic Information Systems Division
- **OCPI** Office of Communications & Public Information
- P&Z Department of Planning and Zoning
- RP&CA Department of Recreation, Parks, and Cultural Activities
- **T&ES** Department of Transportation and Environmental Services
- T&ES-I&ROW Department of T&ES, Infrastructure and Right-of-Way Division
- T&ES-S&SI Department of T&ES, Stormwater and Sanitary Infrastructure Division
- T&ES-C&I Department of T&ES, Construction and Inspection Division
- T&ES-PWS Department of T&ES, Public Works Services Division
- T&ES-RR Department of T&ES, Resource Recovery Division

C. COMPLIANCE WITH YEAR 1 PERMIT CONDITIONS

The following sections of the Annual Report provide the status of PY1 conditions for each of the six MCMs, and address all ongoing BMPs. Each section begins with a summary table describing the task, the implementation year, the measurable goal as described in the City's adopted MS4 Program Plan, and task status. Following each summary table is a more detailed discussion of the implementation status of each task. Additional support materials are located in the appendices.

1. MINIMUM CONTROL MEASURE #1 – PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The following table summarizes activities for Minimum Control Measure #1 and their PY1 completion status. Additional detail is provided after the table and in Appendix A.

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Table 1. Minimum Control Measure #1 Activities Summary and Status

ВМР	Year	Measurable Goal	PY1 Status	
1A General Public Education	and Out	reach		
Distribute brochures at community events.	All	Document efforts to engage and educate citizens, including the number of events attended and an estimate of the number of individuals reached.	✓ Complete	
Provide general stormwater education and information in the City's "Alexandria eNews" bulletin emailed to residents.	All	Document the number of Citizen's subscribing to Alexandria eNews.	✓ Complete	
Continue participation in regional education programs.	All	Summarize activities of the Clean Water Partners program and the results of any assessments of the program's effectiveness.	✓ Complete	
1B Stream Crossing Signs				
Maintain stream crossing signs.	All	Document maintenance of the signs for the annual report.	✓ Complete	
1C Text Messages and PSAs	for Cable	TV		
Implement cable TV text message and PSAs.	All	Document the PSAs and scrolling text message.	✓ Complete	
1D Stormwater BMP Signage	9			
Implement stormwater BMP signage.	All	Provide examples of signage and labeling that has occurred, if any.	✓ Complete	
1E Storm Drain Inlet Markin	ıg			
Implement storm drain inlet marking.	All	Provide the number of storm drain markers installed and the number of groups involved in storm drain marking projects.	✓ Complete	
1F Water Quality Website				
Host water quality website.	All	Provide information on the website and a snapshot of the page.	✓ Complete	

ВМР	Year	Measurable Goal	PY1 Status
Keep website content up to date.	All	Provide information on promotional and educational use of the website, including links to resources.	✓ Complete
1G Education Concerning Fe	cal Colifo	rm Bacteria	
Distribute pet waste brochure and post cards at appropriate events.	All	Summarize activities and report the number of brochures and post cards distributed to City residents.	✓ Complete
Distribute pet waste brochure at the animal shelter.	All	Report the number of brochures distributed at the animal shelter.	✓ Complete

BMP 1A - GENERAL PUBLIC EDUCATION AND OUTREACH

The City performed the following general public education and outreach activities during PY1 in accordance with its MS4 Program Plan:

- The City developed educational brochures related to pollutants of concern and high-priority water quality issues. These brochures were distributed at community events and meetings along with general education brochures on stormwater and pollution prevention. See below for a table of events and meetings. Appendix A contains copies of the City's educational brochures.
- During the previous permit cycle, the City began using Alexandria eNews—an online alert, news and information bulletin—to promote stormwater-related community events such as watershed and stream cleanup opportunities, Alexandria Earth Day activities, and information on topics such as recycling. The City has continued to use Alexandria eNews for promoting City events as well as public education on stormwater issues. Alexandria eNews bulletins sent out on September 12, 2013, October 21, 2013, November 14, 2013, March 28, 2014, April 1, and 17, 2014 and May 10, 2014 included information on upcoming watershed and stream cleanup opportunities, Alexandria Earth Day activities, spring cleanup, recycling tips, a build your own rain barrel workshop, as well as the Environmental Policy Commission's public meeting on the City's Stormwater Public Education and Outreach Program. Approximately 775 subscribers receive environmental news from the City on Alexandria eNews. eNews bulletins are included in Appendix A.
- The City continued its participation in the Northern Virginia Regional Commission's Clean Water Partners program through its online and radio campaign. The website, Only Rain Down the Storm Drain, can be found at www.onlyrain.org. During PY1, the Northern Virginia Clean Water Partners continued using television, print, Internet advertising and the Only Rain Down

the Storm Drain website to distribute messages linked to specific stormwater problems, such as proper pet waste disposal, over-fertilization of lawns and gardens and proper disposal of motor oil. Between January and July of 2014, commercials featuring messages on the importance of picking up pet waste and general household stormwater pollution reduction measures aired on twelve cable TV channels, including three Spanish speaking channels a total of 3,502 times. These TV ads appeared a total of 3,193,924 times on televisions throughout Northern Virginia. The campaign also featured banner ads on the Comcast website that promote the same messages as the cable TV ads, which resulted in over 300 visits to the www.onlyrain.org website.

Documentation and Measure of Effectiveness

The goal of this BMP is to reach a wide audience with a general pollution prevention message as well as specific actions that can be taken to reduce pollution. The following table summarizes the City's public education and outreach activities and events where information on pollution prevention and water quality were distributed.

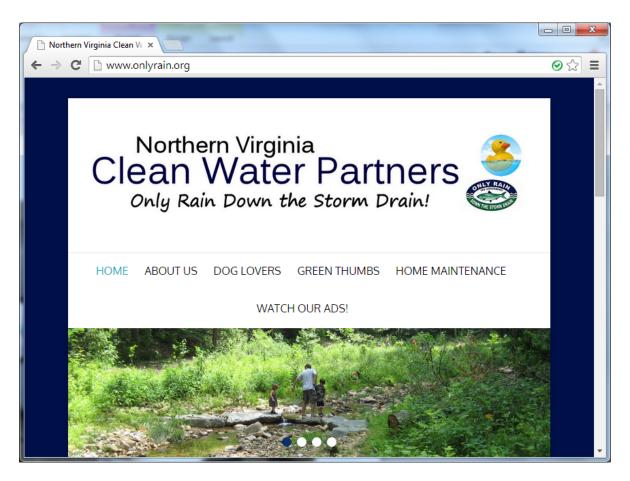
Table 2. Public Education and Outreach Activities Summary

Activity	Topic	Date	Participants (Approx.)
Exchange at Van Dorn Board of Directors Meeting	Stormwater, BMPs	8/6/2013	15
Environmental Policy Commision	New Stormwater Regulations, Bay TMDL, VSMP Regulations	9/16/2013	15
AlexRenew Open House - Rain Barrel Workshop	Water Resources, ChesBay	10/12/2013	50
NVBIA / NAIOP	New Stormwater Regulations	11/12/2013	20
Chamber of Commerce	New Stormwater Regulations	11/13/2013	15
St. Stephen's & St. Agnes School 2nd Grade	Non-Point Source Pollution, Stormwater	11/15/2013	48
Environmental Policy Commission	New Stormwater Regulations	11/18/2013	15
Federation of Civic Associations	New Stormwater Regulations	1/13/2014	10
RPCA Safety Conference	Stormwater Safety Presentation; Stormwater Display (during	2/20/2014	100
Environmental Policy Commission	Public Comment on MS4 Public Education & Outreach Plan	4/7/2014	20
2014 School Environmental Action	Water Resources Jeopardy Game	4/10/2014	125
USPTO Green Fair	OEQ / Eco-City General	4/17/2014	300

Activity	Topic	Date	Participants (Approx.)
Juvenile Detention Center School	General Stormwater	4/21/2014	50
St. Stephen's & St. Agnes Students 4 Sustainability Conference	Water Resources Jeopardy Game	4/21/2014	50
NVCC Environmental Film Festival	OEQ / Eco-City General	4/21/2014	40
St. Stephen's & St. Agnes Lower School Science	General Stormwater	4/23/2014	20
Alexandria Earth Day	Nonpoint Source and Water Resources; OEQ / Eco-City	4/26/2014	2400
Rain Barrel Workshop	Water Resources, ChesBay	5/3/2014	24
City Health Fair	General Stormwater	5/15/2014	250
Bike to Work Day	OEQ / Eco-City General	5/16/2014	525
Maury Science Fair	Non-Point Source Pollution	5/22/2014	50

The 2014 Annual Report from Clean Water Partners with information on the effectiveness of the program is also included in Appendix A. Specifically, the program conducted an online poll survey of 500 Northern Virginia residents to determine the effectiveness of online efforts and a series of TV ads to reveal any changes in behavior, and to aid in directing the future efforts of the campaign. Approximately 15% of the 500 respondents recalled hearing or seeing advertisements on the Internet or on TV about reducing water pollution. The effectiveness of the messaging in changing behavior depended on the pollutant in question with 7% saying they changed behavior with regard to dog waste, 7% are more careful with motor oil, and 18% saying they changed behavior with regard to fertilizers.

The number of respondents choosing "It causes water pollution" as the most important reason for picking up pet waste has risen from 13% in 2011 to 20% in 2014. Of those respondents who fertilize their lawn, 69% had not or were not sure if their soil had been tested for fertility or pH. The poll showed there is room for educating residents that fertilizing in fall is better for local waterways than in the spring, with 13% of residents who only apply fertilize once per year doing it in the spring, while 8% apply it in the fall. Approximately 85% of respondents said that they take their vehicle to a service station to get the oil changed. Ten percent of those who change their own said they take their used oil to a gas station or hazmat facility for recycling, with only 2% saying they store used oil in their garage, place it in the trash, or dump it down a storm drain. Finally, over half of the respondents recognized the *Only Rain Down the Storm Drain* logo.



Northern Virginia Clean Water Partners *Only Rain Down the Storm Drain* Website (www.onlyrain.org)

BMP 1B - STREAM CROSSING SIGNS

The City previously installed 33 signs at 18 locations where roads cross major waterways, as well as nine signs at major stream crossings on hike/bike trails. The signs display the name of the waterway and explain that the waterway is part of the Chesapeake Bay watershed.

The goal of placing stream crossing signs is to promote general citizen and visiting motorist awareness of the City's surface water resources, water bodies, and drainage basins.

Documentation and Measure of Effectiveness

The City continues to maintain these signs so that they are in good condition.

BMP 1C - TEXT MESSAGES AND PSAS FOR CABLE TV

For the past several years, the City has run a scrolling text message on pollution prevention and has aired pollution prevention public service announcements (PSAs) on both a community access channel (Channel 69) and a government access channel (Channel 70). The PSAs have covered three topics: proper disposal of used oil, proper fertilization techniques, and proper disposal of pet

waste. The messages provide information on the importance of water quality protection efforts and where residents can obtain additional information.

Documentation and Measure of Effectiveness

During PY1 the pollution prevention messages continued to run approximately 10-30 times a day, seven days a week. Examples of the PSAs are included in Appendix A.

BMP 1D - STORMWATER BMP SIGNAGE

The City requires that all new and redevelopment projects provide signage or labeling to identify new surface structural stormwater BMPs. The purpose is to help educate the general public and those maintaining structural stormwater BMPs about the purpose of the facility.

Documentation and Measure of Effectiveness

All final site plans are required to show the location and details of signage or labeling to identify all new surface structural stormwater BMPs.



This above-ground BMP sign was installed as part of the upgrade to a regional extended dry pond at Potomac Greens (DSP#1995-0021).

BMP 1E - STORM SEWER INLET MARKING

The City continues to require that storm drain inlets within new development and redevelopment sites, as well as inlets within 50 feet of the projects be marked with information about the drainage destination of the waters entering the structures. In addition, City staff continues to promote the storm drain marking program at community events and to work with interested residents to implement storm drain marking.

Documentation and Measure of Effectiveness

In addition to those markers installed as required by the City for development and redevelopment projects, 575 markers were installed during PY1, as part of five storm drain marking projects by community groups. Approximately 96 participants were involved with the marking projects. A summary of the projects is given in the table below.

Table 3. Storm Sewer Inlet Marking Summary

Group	Date	Watershed	Markers Installed
Old Presbyterian Meeting House	9/2/2013	Four Mile Run	65
Tarleton Park Neighborhood Residents	4/1/2014	Cameron Run (Tarleton Park Neighborhood)	90
Eagle Scout Project Troop	5/31/2014	Hooffs Run / Cameron Run	240
Old Presbyterian Meeting House	6/1/2014	Timber Branch (Rosemont)	180
		Total	575

BMP 1F - WATER QUALITY WEBSITE

The City continues to host and maintain a website dedicated to water quality and stormwater management. The website allows the City to provide water quality and pollution prevention information to the general public in an accessible format. It also allows the City to make documents available to the public for review and comment.

Documentation and Measure of Effectiveness

The Watershed Management web page, located at

http://alexandriava.gov/tes/oeq/info/default.aspx?id=3844, is the responsibility of T&ES-S&SI staff who keep the content up-to-date. In addition, the Environmental Quality web page (http://alexandriava.gov/Environment) has a calendar for upcoming environmental events and a "Check This Out!" section that are updated by T&ES-S&SI staff to highlight upcoming events or important information. These tools are used to promote volunteer stream clean-ups, green building workshops; "build your own" rain barrel workshops, pre-made rain barrel sales events, and

other water quality related topics. Users may also sign up for Alexandria eNews email alerts with a specific focus on environmental and water quality issues, as well as information on volunteer opportunities, tips, and workshops.

Information and external links concerning the Clean Water Act, Virginia's stormwater permitting programs (MS4 and CSS permits) and the Chesapeake Bay Preservation Act can be found at the city's "Water Quality Regulations and Permitting" web page at the following link: http://www.alexandriava.gov/tes/oeq/info/default.aspx?id=50216. This page also contains information and links for the City's Environmental Management and Erosion and Sediment Control ordinances.

The website can also used to access the City's online resident reporting web page; "Call, Click, Connect", to report illegal dumping, illicit discharges, or other environmental concerns. Links to the "Call, Click, Connect" web page are found at the top of every <u>alexandriava.gov</u> web page.



Alexandria's Call.Click.Connect portal at (703.746.HELP) and http://alexandriava.gov

In addition to the City's water quality and watershed management web pages, T&ES staff maintains a Facebook page which is used for public education, and to promote community events such as Earth day and watershed cleanups. Snapshots of the City's web pages and the T&ES Facebook page are found in Appendix A.

BMP 1G - EDUCATION CONCERNING FECAL COLIFORM BACTERIA

The goal of this BMP is to help reduce bacterial pollution in the City's waterways caused by pet waste. The City has developed an educational pollution prevention brochure targeted at the City's approximately 5,380 pet owners. During PY1, the City continued to distribute the brochure, together with a post card titled "Please Pick Up My Poop" developed through the CWP, to pet owners at all appropriate City events. The brochure is also distributed at the City Animal Shelter, and is in the adoption package given to anyone adopting a pet. According to the Animal Welfare League of Alexandria, there were approximately 564 dogs and 1,315 total animals adopted during PY1. The City also distributed "dog bone" pet waste bag dispenser at City events, in addition to the post cards and brochures.

The City continued to maintain a kiosk-style pet waste station at the Fort Ward Dog Exercise Area, located within the non-tidal Four Mile Run watershed. The pet waste station includes educational materials and pet waste bags for disposal of pet waste.

During PY1, the City also added a new pet waste station at the Tarleton Park Dog Exercise Area (see photo below), located within the Cameron Run watershed. Between April and June of PY1, approximately 800 pet waste bags were used at Tarleton Park.

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Tarleton Park Pet Waste Station

2. MINIMUM CONTROL MEASURE #2 - PUBLIC INVOLVEMENT AND PARTICIPATION

The following table provides a summary of activities for Minimum Control Measure #2 and their PY1 completion status. Additional detail is provided after the table and in Appendix B.

Table 4. Minimum Control Measure #2 Activities Summary and Status

ВМР	Year	Measurable Goal	PY1 Status		
2A Public Notice and Part	2A Public Notice and Participation				
Meet all legal obligations with respect to public notice and comment regarding the stormwater management program and permit requirements.	All	Provide minutes of any actions taken and a summary of public comments received during the public information meeting on the draft MS4 Program Plan and draft annual reports. Also provide documentation of public notices issued regarding the stormwater program and permit.	✓ Complete		
Maintain an updated MS4 Program Plan. Required updates to the Program Plan shall be completed at a minimum of once per year in conjunction with the annual report.	All	Document that the program plan has been updated in accordance with the permit.	✓ Complete		
The Program Plan for each permit year shall be posted on the City's webpage within 30 days of submitting the annual report to the department.	All	Document that the Program Plan has been posted on the City's web page within 30 days of submitting the annual report to the department.	✓ Complete		
Each annual report shall be posted online within 30 days of submittal to the department. Annual reports shall be retained online for the duration of the 2013-2018 permit cycle.	All	Document that the annual reports have been posted on the City's web page within 30 days of submittal to the department. Retain Annual Reports online for the duration of the 2013-2018 permit cycle.	✓ Complete		

2	Tour			
During PY5, as part of its permit reapplication process, the City shall give adequate public notice and provide for public comments on the draft MS4 Program Plan.	PY5	Document public notice and provide a summary of public comments on the draft Program Plan during PY5.	Scheduled for PY5	
2B Staff Support and Ann	ual Wat	er Quality Update to the EPC		
Provide staff support to the Environmental Policy Commission.	All	Provide annual reports of the EPC as available and any relevant meeting minutes.	✓ Complete	
Provide annual water quality update to the EPC.	All	Document the annual EPC update and provide a summary of any feedback.	✓ Complete	
2C City Sponsorship of Ea	rth Day			
Sponsor Alexandria's annual Earth Day.	All	Document sponsorship and participation in Earth Day	✓ Complete	
2D City Promotion of Clean Up Events				
Sponsor, promote, and participate in clean up events by non-profits and the City.	All	Document promotion of events.	✓ Complete	

Measurable Goal

PY1 Status

BMP 2A - PUBLIC NOTICE AND PARTICIPATION

BMP

Year

During PY1, the City took the following actions in accordance with the permit requirements:

- The City met all legal obligations with respect to public notice and comment regarding the updates to the MS4 program plan and permit requirements.
- The City updated its MS4 Program Plan in accordance with the permit requirements.

In addition, the Program Plan for PY1 shall be posted on the City's website within 30 days of submitting this annual report to the department. Once this annual report is finalized, it shall also be posted on the City's website within 30 days of submittal to the department.

Documentation and Measure of Effectiveness

A screen capture of a portion of the City's stormwater web page showing the online links to the MS4 Program Plan and the PY5 annual report for the previous permit cycle is shown below.

Annual Report

Stormwater Management

Municipal Separate Storm Sewer System (MS4) Stormwater Program Plan

Under the Virginia Stormwater Management Program (VSMP) permit regulations, the City is required to control stormwater pollution to the maximum extent practicable and to develop a pollution prevention plan – known as a Municipal Separate Storm Sewer System (MS4) Program Plan. The City's initial plan was developed in 2003, was revised in 2008 and revised again in 2014 to reflect changes to the City's latest state permit. The permit contains Six Minimum Control Measures (MCMs) listed below. The City has developed appropriate and effective Best Management Practices (BMPs) to control stormwater pollution to the maximum extent practicable. The MS4 Program Plan contains the BMPs that address the MCMs, which are discussed in some detail here.

MS4 Annual Report for 2012-2013

Also under the Virginia Stormwater Management Program (VSMP) permit regulations, the City is required to submit an annual report to the Virginia Department of Environmental Quality (DEQ). The report provides details of the BMPs the City performs as part of the MS4 Program Plan to meet or exceed the control measures (MCMs) of the MS4 Phase II General Permit. The reporting period covered by this year's annual report is from July 1, 2012 to June 30, 2013

Alexandria MS4 Annual Report Main Body Alexandria MS4 Annual Report AppendixA Alexandria MS4 Annual Report AppendixB Alexandria MS4 Annual Report AppendixC Alexandria MS4 Annual Report AppendixF Alexandria MS4 Annual Report AppendixF Alexandria MS4 Annual Report AppendixF

Alexandria's Stormwater Management page provides online links to the MS4 Program Plan and the latest Annual Report.

Appendix B contains examples of the City's efforts to notify and involve the public in its MS4 Program Plan. Included is the City's notice to the public on the EPC's April 7, 2014 public meeting concerning updates to the City's MS4 Program Plan and the selection of the three pollutants of concern. The EPC meeting agenda, minutes, and meeting notes with public comments are included as well.

BMP 2B - STAFF SUPPORT AND ANNUAL WATER QUALITY UPDATE TO EPC

City departments continue to provide ongoing staff support to the Environmental Policy Commission. Appointed by City Council, the EPC makes recommendations on environmental issues, including stormwater management. In order to ensure that the EPC provides a balanced perspective, its members represent predetermined stakeholder groups and professional backgrounds.

City staff provides the EPC with one or more updates annually concerning the City's water quality programming. Due to the recent changes in the State's stormwater management regulations and the MS4 Program Plan Updates required under the City's new MS4 permit, City staff provided updates to the EPC at three meetings during PY1. On September 16, 2013, City staff provided an overview of necessary changes to the City's Environmental Management ordinances based on new regulatory requirements of Virginia's Stormwater Management Act. On November 18, 2014, City staff gave a presentation to the EPC on the City's Draft Environmental Management Ordinance and Erosion and Sediment Control Ordinance. The City's Stormwater Public Education and Outreach Program was discussed at the April 7, 2014 meeting and staff solicited public input concerning the three pollutants of concern identified by the City.

Documentation and Measure of Effectiveness

Appendix B contains the EPC's FY 2013 annual report, and the agendas for the September 16, 2013, November 18, 2013 and April 7, 2014 EPC meetings. Meeting minutes from the September 16 and

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Permit Year 1: July 1, 2013 - June 30, 2014

April 7 meeting are included as well, with slides from the November 18, 2013 presentation to the EPC by City staff.

BMP 2C - CITY SPONSORSHIP OF EARTH DAY

The City continues to be an active sponsor of the Alexandria Earth Day event. The City's support for this event serves to strengthen private environmental stewardship efforts and provides citizens with a broad range of educational opportunities. The website for official Alexandria Earth Day activities is www.alexearthday.org. Earth Day celebrations were held on April 26, 2014.

Documentation and Measure of Effectiveness

Approximately 2,400 people attended the 2014 Alexandria Earth Day event. City staff was on hand to distribute materials and literature to educate residents about water quality and the importance of pollution prevention. They also distributed educational giveaway items, such as Eco-City branded water bottles and individual pet waste dispensers. During PY1, City staff also conducted a survey of residents



Alexandria Earth Day Outreach (04.26.2014)

concerning stormwater and pollution prevention. The City's press release and a screen capture of the City's Earth Day 2014 web page is included in Appendix B, along with the results of the stormwater survey.

BMP 2D - PROMOTION OF CLEANUP EVENTS

The City continued its partnership with non-profit volunteer organizations to help promote, organize, sponsor and provide site leadership for stream and watershed cleanup activities throughout the City.

Documentation and Measure of Effectiveness

During PY1, the City promoted, or provided site leadership at the following stream and watershed cleanup activities. By itself, the Potomac River Watershed cleanup at Four Mile Run (at Commonwealth Avenue and Mount Vernon Avenue) on April 5, 2014 resulted in the removal of 110 bags of trash, 40 pounds of loose debris, and involved 89 volunteers. Promotional flyers, sample eNews alerts, and News Items on community cleanup events are included in Appendix B.

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Table 5. Cleanup Events

			Dogg
Activity	Date	Volunteers	Bags Removed
Good Shepherd Catholic School Workday. Volunteers removed non-native invasive plants from Timberbranch Parkway. Volunteers stacked a 50'-plus long by 4-5' tall pile of highly invasive White Mulberry, Bush Honeysuckle, Tree-of-Heaven, Pagoda Tree, Sweet Cherry, and Rose of Sharon brush to be chipped by the City Arborist Office. Volunteers also removed a couple of 2 cu. ft. bags of recyclables from the stream bank.	8/10/2013	8	3
St. Stephen's and St. Agnes School (Upper Campus) Workday. Students and chaperones removed non-native invasive plants from Timberbranch Parkway and Upland Park. At Timberbranch Parkway, 14 students and 2 chaperones planted 9 Field Thistle, 6 Sensitive Fern, 3 Perplexing Tick-trefoil, 3 Narrow-leaf Tick-trefoil, 3 Joepye Weed, 1 Flat-topped Goldenrod, 1 White Wood Aster, and 1 large Highbush Blueberry near footings on either side of the newly installed pedestrian bridge. Volunteers also cut down large stands of the highly invasive Japanese Knotweed along the east side of Timber Branch near the bridge. At Upland Park with Scott Graham, 15 students and 1 chaperone added 12 Round-leaved Thoroughwort, 7 Narrow-leaved Mountain Mint, and 7 Slender Bushclover to the existing plantings at the Girl Scout Troop 4143 Native Plant Pollinator Rain Garden. Volunteers also hand-pulled another third of the English Ivy infestation in the wooded section of the park initiated by St. Stephen's and St. Agnes School volunteers on the June 4 Service Day.	9/3/2013	32	N/A
Virginia Clean Waterways Clean Up (International Coastal Clean Up) Oronoco Bay Park	9/21/2013	23	27
National Public Lands Day Non-Native Invasive Plant Removal and Litter Clean-Up Workday. Volunteers removed twelve 3 cu. ft. bags of Long-bristled Smartweed from the site and a truckload of debris and litter from the footprint of the old home site.	9/28/2013	12	12
TD Tree Day. Tarleton Park Ecological Restoration Planting with Tree Stewards Arlington & Alexandria and other volunteers.	10/15/2013	30	N/A
Publicize the Annual Holmes Run Fall Cleanup.	10/26/2013	Not Counted	Not Counted
Publicize Four Mile Run Park & Monticello Park / Clean VA Waterways, International Coastal Cleanup.	10/26/2013	Not Counted	Not Counted

Australian	Doto	Valuntaava	Bags
Ecological Restoration Planting in Wetlands along the George Washington Memorial Parkway GWMP) and Potomac Greens. Scott Graham, of RPCA Natural Resources Division, assisted Earth Sangha, National Park Service, and volunteers in an ecological restoration planting in wetlands along the George Washington Memorial Parkway GWMP) and Potomac Greens opposite Daingerfield Island on November 9, 2013. Volunteers and staff planted 10 American Elm (Ulmus americana), 7 Green Ash (Fraxinus pennsylvanica), 3 Tulip Tree (Lirodendron tulipifera), 30 Sweetspires (Itea virginica), 30 Cardinal Flower (Lobelia cardinalis), 30 Red-top Panicgrass (Panicum rigidulum), 10 Small-flowered Agrimony (Agrimonia parviflora), and 7 Fringed Sedge (Carex crinita).	Date 11/9/2013	9	Removed N/A
Ecological Restoration Planting in Upland Forest Glade at George Mason Park with Den 5 Scouts - Pack 129. Thirty-seven native upland oaks and hickories were planted by Den 5 Scouts - Pack 129: 11 Post Oak (Quercus stellata), 6 White Oak (Quercus alba), 6 Scarlet Oak (Quercus coccinea), 6 Black Oak (Quercus velutina), 2 Blackjack Oak (Quercus marilandica), 1 Southern Red Oak (Quercus falcata), 3 Pignut Hickory (Carya glabra), and 3 Mockernut Hickory (Carya alba).	11/23/2013	20	N/A
American Chestnut ecological restoration planting at Dora Kelley Nature Park.	12/13/2013	7	N/A
2014 Potomac River Watershed Cleanup at Four Mile Run (3700 Commonwealth Avenue location).	4/5/2014	70	89 bags and 40 lbs. loose debris
2014 Potomac River Watershed Cleanup at Four Mile Run (Mount Vernon Avenue location).	4/5/2014	19	21
T.C. Williams High School International Academy Community Stewardship Day. Volunteers removed non- native invasive plants and conducted ecological restoration plantings and litter clean-up at INOVA Alexandria Hospital Scenic Easement, Chinquapin Park, Forest Park, and Angel Park.	4/25/2014	220	N/A
Wakefield Tarleton Civic Association, City of Alexandria, and Arlington-Alexandria Tree Stewards. Tarleton Park "Earth Day" Native Tree Planting.	4/26/2014	15	N/A
Keller Williams Kingstowne Realty Group Volunteer Service Day ("Red Day"). Volunteers hand-pulled and bagged thirty 4 cu. ft. bags Garlic Mustard at Dora Kelley Nature Park.	5/8/2014	22	30

Activity	Date	Volunteers	Bags Removed
Garlic Mustard Pull. T.C. Williams High School students and biology instructor Patrick Earle and volunteer Jim Clark hand-pulled and bagged thirty 3 cu. ft. bags of Garlic Mustard at Chinquapin and Forest parks.	5/9/2014	27	30
Spring for Alexandria Garlic Mustard Pull at Holmes Run Scenic Easement. Volunteers hand-pulled and bagged thirty 3 cu. ft. bags Garlic Mustard.	5/16/2014	9	30
Virginia Cooperative Extension Master Gardeners of Northern Virginia and Community Invasive Plant Removal Workday at Ft. Williams Park. Volunteers filled a 30-yard dumpster with non-chippable weed material like vines, bamboo, and bagged weeds and seeds such as Garlic Mustard (Alliaria petiolata).	5/24/2014	35	30-CY Dumpster
Dissolved Oxygen Project" Native Tree Planting with GW School 7th Grade Students and Biology Instructor Mary Breslin. Volunteers planted 15 native saplings from Earth Sangha.	6/3/2014	20	N/A

In addition to the sponsoring and promoting cleanup events, various City departments have actively participated in community cleanup activities. In October of PY1, the City received an award from the Alice Ferguson Foundation for its participation in Litter Enforcement Month during the month of April 2013. The City's Code Administration, T&ES, Sheriff's Office and Police Department participated by conducting proactive inspections, identifying areas for dumping and trash accumulation, and servicing



Four Mile Run Cleanup Day (04.05.2014)

complaints of improperly stored or accumulated trash. A four-man Inmate Work Detail, supervised by the Sheriff's office collected over 900 pounds of trash. A news article about the award and cleanup effort is included in Appendix B.

3. MINIMUM CONTROL MEASURE #3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

The following table is a summary of activities for Minimum Control Measure #3 and their PY1 completion status. Additional detail is provided after the table and in Appendix C.

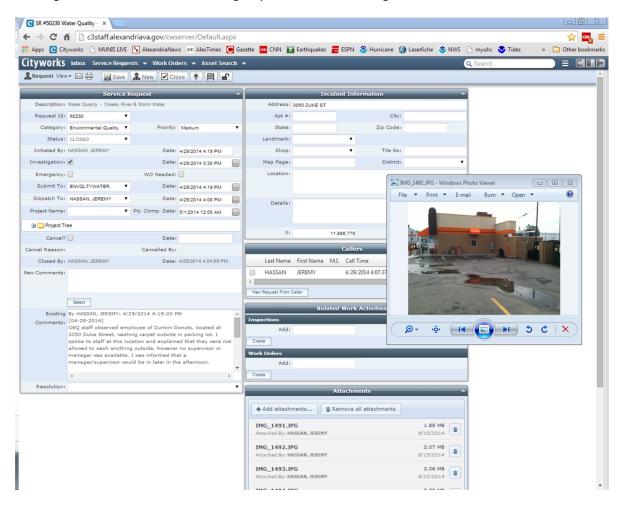
Table 6. Minimum Control Measure #3 Activities Summary and Status

ВМР	Year	Measurable Goal	PY1 Status				
3A Nuisance Abatement Hotline and Web Based Reporting Form							
Maintain Nuisance Abatement Hotline and web based reporting form.	All	Provide a snapshot of the Nuisance Abatement Hotline web page and web based reporting form. Document the number and types of incidents handled.	✓ Complete				
3B Household Hazardous W	aste (HHW) Program					
Provide HHW and used oil collection services to all residents.	All	Provide copies of the program web site and brochures. Document program participants and the number of barrels accepted.	✓ Complete				
3C Prohibition on Illicit Disc	harges						
Enforce prohibition on illicit discharges (Chapter 13 of City Code).	All	Report number of illicit discharges and provide a narrative on how they were controlled or eliminated. Review procedures and make recommendations accordingly.	✓ Complete				
3D Illicit Discharge Detectio	n and Elimi	nation Training					
Continue to incorporate illicit discharge and dumping prevention into the City's pollution prevention training to municipal staff on a biennial basis.	All	Track and document training activities.	✓ Complete				

ВМР	Year	Measurable Goal	PY1 Status						
3E Identification of All Perm	3E Identification of All Permitted Stormwater Discharges								
Make annual requests to DEQ to provide updated information. Update GIS data as necessary.	All	Maintain up-to-date map and list of State-permitted stormwater discharges within the City limits.	✓ Complete						
3F Prohibition of Outdoor C	leaning of F	Restaurant Equipment	1						
Enforce prohibition on outdoor cleaning of restaurant equipment.	All	Document example SUP, if one has been done in the reporting period.	✓ Complete						
3G Storm Sewer System Maj)								
Maintain an up-to-date storm sewer system map and outfall information table for review upon request by the public or by DEQ.	All	Up-to-date storm sewer map and outfall information table available upon request.	✓ Complete						
Update the storm sewer map and outfall information table in accordance with Section II.B.3.a. of the 2013-2018 permit.	PY4	Include updated outfall information table as an Appendix in the PY4 annual report.	✓ On Schedule						
Notify downstream regulated MS4s in writing of any physical interconnections as they are identified by the City.	All	Provide a list of any written notifications of physical interconnections given by the City to other MS4s during the permit year.	✓ Complete						
3H Outfall Field Screening a	nd Illicit Di	scharge Investigations							
Perform dry weather field screening on 50 priority outfalls annually.	All	Provide results of outfall screenings for the permit year, and any follow-up actions required for illicit discharges discovered during the field screenings.	✓ Complete						
Investigate all illicit discharges reported to the City or discovered during outfall field screening.	All	Provide a summary of illicit discharge investigations to include results, resolution, and closure date.	✓ Complete						

BMP 3A - NUISANCE ABATEMENT HOTLINE AND WEB BASED REPORTING FORM

The City continues to maintain a 24-hour Nuisance Abatement Hotline (703-836-0041) for citizens and staff to report suspected illicit discharges. The Nuisance Abatement Hotline is highlighted on the City's website and the City's pollution prevention brochures. In addition, the City maintains a web-based problem reporting form that can be used by citizens to report suspected illicit discharges and other environmental concerns. The reporting form can be found on the City's "Call, Click, Connect" webpage. Reports of illicit discharges are investigated by the Fire Marshal's Environmental Industrial Users Group (EIU) and T&ES-S&SI. Reports of illicit discharges and investigation results are tracked using Cityworks™ asset management software.



 $A lexandria's \ illicit \ discharge \ reports \ and \ investigation \ results \ are \ tracked \ using \ Cityworks^{\text{\tiny{TM}}}.$

Documentation and Measure of Effectiveness

The City (through T&ES-S&SI and EIU reporting mechanisms) handled 47 water quality and illicit discharge related complaints or incidents in PY1. T&ES-S&SI receives complaints directly from Cityworks™ and/or enters the information received via email, phone or other source. The EIU is responsible for entering this information into the Permit Plan database when both T&ES-S&SI and

EIU are actively involved, while EIU and T&ES-S&SI coordinate on response and follow-up. T&ES-S&SI receives and enters data into Cityworks™ for incidents handled solely by their office.

As with PY5 under the previous MS4 permit, illicit wash water discharges were the most common complaint and problem in PY1. Reports of discharges involving petroleum were a close second as the most common complaints received. Screen shots of the City website's Call, Click, Connect link and web page, and the Cityworks™ and Permit Plan reporting forms are provided in Appendix C. The summary table of illicit discharge complaints and a narrative on how each discharge was controlled or eliminated is included under BMP 3H − Outfall Field Screening and Illicit Discharge Investigations.

BMP 3B - HOUSEHOLD HAZARDOUS WASTE (HHW) PROGRAM

The City continued to maintain its successful HHW program during PY1. By providing citizens with an opportunity to properly dispose of HHW, the City hopes to reduce illegal dumping.

Documentation and Measure of Effectiveness

Participation in the HHW Program increased during PY1 by more than 1,000 residents over the previous reporting year, from 8,424 in FY2013 to 9,535 in FY2014. The City's use of a new contractor (Clean Venture Inc.) and a more efficient manner in which the drums of waste were packed for transport/disposal led to a reduction the number of barrels of HHW collected in FY2014. However, the amount of material collected was approximately 100 tons, and was in line with collection totals from previous years. The web site

http://alexandriava.gov/tes/solidwaste/info/default.aspx?id=19206 includes information on the types of materials that may be left at the drop-off points and the schedule for drop-offs. The following table provides a snapshot of HHW program statistics:

Table 7. Household Hazardous Waste Participation

Year	Users	Barrels of HHW
FY2008	4,987	N/A
FY2009	6,067	754
FY2010	7,059	875
FY2011	7,920	822
FY2012	7,698	702
FY2013	8,424	759
FY2014	9,535	516

A screen capture of the City's HHW program web page and most recent program brochure is provided in Appendix C.

Household Hazardous Waste & **Electronics Collection Program**

Many everyday products contain chemicals that are potentially hazardous to our health and the environment. It is our responsibility to properly use, store, and dispose of hazardous items. Make sure to:

- · Carefully read labels and follow directions.
- Do not mix chemical substances even similar products.
- Use only in well-ventilated areas.
- · Secure lids tightly; Store in a dry, cool place away from heat, children & pets.
- Properly dispose of hazardous waste.

Eligible Participants:

City of Alexandria Residents ONLY Businesses - visit web site for more information

Acceptable materials:

- · Gasoline, Antifreeze & Motor Oil
- Battery Acid & Car Batteries
- · Oil-Based & Spray Can Paint
- Flammable Caulks & Adhesives
- Lacquers, Varnishes & Thinners
- Mineral Spirits
- Fire Extinguishers
- · Household/Auto Cleaning Products
- Flammable Waxes & Abrasives
- · Photographic Chemicals & Products
- Lawn Care & Garden Products
- · Rodent, Insect & Ant Repellant Products
- Mercury & Fluorescent Light Bulbs

Unacceptable materials:

Explosives, Ammunition, Biological Waste, Radioactive Materials, Unlabeled or Unknown Substances

Acceptable Electronic Items

- · Cell phones, Blackberries & PDA's
- Calculators
- CD-ROM/DVD drives
- · Memory & Circuit boards
- Computers (PC's)/Laptops/Notebooks
- Monitors (LCD & CRT)
- · All computer peripherals: Keyboards, Mice, Cables & external Drives.
- Fax Machines & Modems
- Digital Cameras
- All rechargeable and button Batteries (Alkaline batteries can be disposed of as trash in curbside collection)
- · Desktop printers (laser & ink jet) & their cartridges.
- Desktop scanners & copiers
- · Stereos and speakers
- Uninterrupted Power Supplies (UPS)
- Video & Audio Equipment
- · Wire/cables/extension cords
- TV's (CRT, LCD, Plasma, Rear Proj.)
- Storage Media and their cases: (DVDs, CDs, VHS, ZIP, floppy disks, etc.)
- Small kitchen appliances & microwaves
- · Refrigerators and Freezers
- A/C units, Dehumidifiers or other items containing refrigerant



Household Hazardous Waste Electronics Recycling Program



3224 Colvin Street Alexandria, VA 22314

Hours of Operation Monday & Saturday (Except holidays) 7:30 a.m. to 3:30 p.m.



T&ES - Solid Waste Division (703) 746-4410 alexandriava.gov/recycling



Alexandria's Household Hazardous Waste & Electronics Recycling Program Brochure one of many public information brochures prepared by the City.

BMP 3C - Prohibition on Illicit Discharges

The purpose of this BMP is to ensure that the City has the legal tools necessary to effectively prohibit illicit discharges and to conduct necessary enforcement in the case of an illicit discharge. City Council has already adopted appropriate measures and provided documentation in previous annual reports. The City Attorney has reviewed the City Code and has determined that no additional changes are needed at this time.

Documentation and Measure of Effectiveness

The table provided under BMP 3A above, provides a summary of illicit discharge complaints and a narrative on how each complaint was handled, including how any actual discharge was controlled or eliminated as appropriate. No pattern of illicit discharges necessitated a review of policies, procedures, or ordinances.

BMP 3D -ILLICIT DISCHARGE DETECTION AND ELIMINATION TRAINING

The City continues to incorporate illicit discharge and dumping prevention into its pollution prevention training to municipal staff on a biennial basis. The objective of this measure is to help employees identify potential illicit discharges while out in the field or simply out in the community.

Documentation and Measure of Effectiveness

This training is performed on a biennial basis and is described under BMP 6E – Pollution Prevention Training.

BMP 3E -IDENTIFICATION OF ALL PERMITTED STORMWATER DISCHARGES

The City continues to obtain updated information from DEQ annually and maintain a map of all state-permitted stormwater discharges within the City limits. The purpose of this BMP is to provide field operations staff with a visual tool for identifying permitted and non-permitted discharges

Documentation and Measure of Effectiveness

A current map and spreadsheet of state-permitted stormwater discharges, current as of June 2014, is located in Appendix C.

BMP 3F - PROHIBITION OF OUTDOOR CLEANING OF RESTAURANT EQUIPMENT

The City continues to include in the Special Use Permit (SUP) issued for restaurant facilities a statement that says: "Kitchen equipment shall not be cleaned outside, nor shall any cooking residue be washed into the streets, alleys, or storm sewers."

Documentation and Measure of Effectiveness

A sample of a recently approved SUP with the appropriate language regarding restaurant equipment is found in Appendix C (SUP2014-00043: Condition #16, Page 9).

BMP 3G -STORM SEWER SYSTEM MAP

The City continues to maintain a storm sewer map showing all stormwater outfalls discharging to waters of the Commonwealth. The City will update the storm sewer map and associated data tables in accordance with the 2013-2018 permit. These updates will be completed by the end of PY4. The City will also continue to notify any downstream regulated MS4s by writing of any identified physical interconnections with them.

Documentation and Measure of Effectiveness

No interconnections with other MS4s were identified during PY1, and no written notices were given. There were no new outfalls added to the City's storm sewer map during PY1. An up-to-date storm sewer system map is available to the public or DEQ upon request.

BMP 3H -OUTFALL FIELD SCREENING AND ILLICIT DISCHARGE INVESTIGATIONS

During PY1, the T&ES-S&SI staff performed dry weather field screening on 50 priority outfalls selected in accordance with the City's IDDE manual. The City also handled 47 water quality and illicit discharge related complaints or incidents through its T&ES-S&SI and EIU reporting mechanisms described in BMP 3A above.

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Documentation and Measure of Effectiveness

The results of the outfall field screening are summarized in the table below:

Table 8. Outfall Field Screening

Facility ID	Watershed	Inspection Date	Follow- Up Reqd.	Reason for Follow-Up	Follow- Up Date	Follow- Up Result
000218IO	Backlick Run	5/19/2014	No			
000219I0	Backlick Run	5/19/2014	No			
00022010	Backlick Run	5/19/2014	No			
000146IO	Backlick Run	5/19/2014	No			
000159I0	Backlick Run	5/19/2014	No			
000151IO	Cameron Run	5/19/2014	No			
000130IO	Strawberry Run	5/19/2014	Yes	Orange substance	5/21/2014	no discharge present
000120I0	Strawberry Run	5/19/2014	No			
000336I0	Taylor Run	5/19/2014	No			
000546I0	Timber Branch	5/19/2014	No			
00054010	Timber Branch	5/19/2014	No			
000542IO	Timber Branch	5/19/2014	No			
00053510	Timber Branch	5/19/2014	No			
000536I0	Timber Branch	5/19/2014	No			
000528I0	Timber Branch	5/19/2014	No			
000533IO	Timber Branch	5/20/2014	No			
000511IO	Timber Branch	5/20/2014	No			
000513IO	Timber Branch	5/20/2014	No			
000514IO	Timber Branch	5/20/2014	No			
000516I0	Timber Branch	5/20/2014	No			
000517IO	Timber Branch	5/20/2014	No			
000521I0	Timber Branch	5/20/2014	No			
000518I0	Timber Branch	5/20/2014	No			
000519I0	Timber Branch	5/20/2014	No			
00052010	Timber Branch	5/20/2014	No			
00043110	Four Mile Run	5/20/2014	Yes	cloudy discharge	5/20/2014	no discharge present
000432I0	Four Mile Run	5/20/2014	No			
000423I0	Four Mile Run	5/20/2014	No			
000427IO	Four Mile Run	5/20/2014	No			
000428I0	Four Mile Run	5/20/2014	No			

Facility ID	Watershed	Inspection Date	Follow- Up Reqd.	Reason for Follow-Up	Follow- Up Date	Follow- Up Result
000429IO	Four Mile Run	5/20/2014	No			
00060510	Four Mile Run	5/20/2014	No			
000606IO	Four Mile Run	5/20/2014	No			
000426IO	Four Mile Run	5/20/2014	No			
000062IO	Taylor Run	6/3/2014	No			
00005010	Taylor Run	6/3/2014	No			
00006510	Taylor Run	6/3/2014	No			
000064IO	Taylor Run	6/3/2014	No			
000051IO	Taylor Run	6/3/2014	No			
000067IO	Taylor Run	6/3/2014	No			
Unlisted	Taylor Run	6/3/2014	No			
000052IO	Taylor Run	6/3/2014	No			
000053IO	Taylor Run	6/3/2014	No			
Unlisted	Taylor Run	6/3/2014	No			
000055IO	Taylor Run	6/3/2014	No			
000056IO	Taylor Run	6/3/2014	No			
Unlisted	Taylor Run	6/3/2014	No			
00006110	Taylor Run	6/3/2014	No			
000057IO	Taylor Run	6/3/2014	No			
00005810	Taylor Run	6/3/2014	No			

The following table summarizes the illicit discharge complaints received by the City during PY1 and a narrative on how each discharge was controlled or eliminated. Meeting agendas for the EIU are included in Appendix C.

Table 9. Illicit Discharge Incidents

Tracking ID	Date Initiated	Date Closed	Problem Address	Incident	Narrative and Result
FIR2013- 00988	8/15/2013	8/15/2013	2111 Einsenhower Ave.	Dumping of restaurant waste into storm drain.	FM issued NOV to owner for illegally dumping waste into storm sewer and instructed owner to inform all employees.
OEQ 38767	8/19/2013	8/21/2013	129 S Gordon St.	White, milky substance in stream.	Upon investigation, no active discharge was occurring. This area has a history of similar occurrences in the past. Unable to determine source (Drainage area is very large). Will continue to monitor this area for a source.

	Date		Problem		
Tracking ID	Initiated	Date Closed	Address	Incident	Narrative and Result
OEQ 40196	9/18/2013	9/19/2013	710 Bracey Lane	Dumping of window wash water with strong odor into storm drain.	Contacted owner of window cleaning company whom will inform employees to block up drains and/or direct to grass areas. Received warning.
FIR2013- 01089	9/23/2013	9/25/2013	5340 Holmes Run Pkwy.	Dumping of wash water into storm drain.	FM found two employees from Clean Inc. dumping waste water mixed with wax near storm drain. Residue of wax was found in stream. FM issued NOV to Clean Inc. supervisor for cleanup.
OEQ 41107	10/11/2013	10/11/2013	307 Park Rd.	Possible oil spill in road.	During rainfall, a faint oil sheen appeared to be coming out of the asphalt and in the gutter pans around the entire block. After 15 minutes of heavy rain, sheen was no longer visible. No other possible source was identified during the investigation. Will continue to monitor this area to determine if additional steps are necessary for remediation.
FIR2013- 01181	10/15/2013	10/18/2013	5951 Stevenson Ave.	Overturned waste oil container in parking lot.	Issued NOV to management company. Waste container used to belong to ChiChi's many years ago. Management company has been ordered to remove container and clean up grease spill.
FIR2013- 01212	10/25/2013	10/25/2013	450-D S Pickett St.	Vehicle leaking oil in parking lot.	FM issued owner NOV to remove and cleanup area.
FIR2013- 01216	10/26/2013	10/30/2013	1015 Cameron St.	Grease spill in parking lot.	A wall collapse knocked over a cooking grease barrel belonging to the Fraternal Order of Eagles. FM issued NOV to the FOE for clean up of the spill. No waterways or drains involved.
OEQ 41909	10/31/2013	10/31/2013	106 N Washington St.	Dumping of cooking grease into storm drain.	Observed a large amount cooking waste into a storm drain grate. Unable to determine responsible party, but material was abated and FM gave a warning to all the restaurant managers of the restaurants connected to this alley. Asked adjacent church to install "illegal dumping prohibited" signs in alley. Continuing to monitor this area.
OEQ 41858	10/31/2013	10/31/2013	127 W. Reed Ave.	Leaking water meter.	Observed possible leak from water meter. No oil present, although a small organic sheen was visible. Contacted Virginia American Water to investigate if repairs are needed.

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Tracking ID	Date Initiated	Date Closed	Problem Address	Incident	Narrative and Result
FIR2013- 01265	11/9/2013	11/13/2013	3914 Bruce St.	Abandoned fuel tank with diesel fuel discovered.	An abandoned underground fuel tank was discovered during waterproofing work on adjacebnt building. Top of tank was puncured, resulting in odors; however, no evidence of fuel leaking. FM referred building management to Code Admin for proper permits for abatement of tank.
OEQ 43231	12/4/2013	12/9/2013	603 North View Terrace	Possible fuel spill from vehicle.	FM visited this address several times over the next few days and was unable to locate vehicle. This request is being closed out at this time; however, we will continue to monitor this area for this issue.
FIR2013- 01412	12/18/2013	12/18/2013	421 E Braddock Rd.	Washing sediment into storm drain.	Landscaping contractor was washing sediment off the street and into storm drain. NOV issued for immediate cleanup of sediment and water from street and from around inlet. Spoke with supervisor and directed him to inform his workers to no longer wash anything into the storm drain.
FIR2014- 00045	1/5/2014	1/29/2014	5 W Uhler Ave.	Leaking fuel oil tank.	Abandoned fuel tank in basement slowly leaking fuel oil. Tank is approx. 200-250 gallons and has not been used for 30 years. Resident obtained demo permit and tank was removed.
FIR2014- 00058	1/6/2014	1/13/2014	3 W Uhler Ave.	Leaking fuel oil tank.	Issued NOV to have tank repaired or removed. Resident contracted environmental contractor to empty tank. VDEQ also notified.
FIR2014- 00077	1/9/2014	1/10/2014	5350 Duke St.	Leaking fuel oil tank.	City Traffic crew punctured the top of an abandoned underground fuel tank in public right-of-way while installing the base for a utility. The tank was confirmed to be leaking. VDEQ was notified, soil samples were taken. The tank and excavated material were removed and disposed of off-site by an environmental contractor. Product not identified but believed to be #2 fuel oil.
OEQ 44913	1/16/2014	1/16/2014	3637 Russell Rd.	Vehicle washing in the parking lot.	The FM informed the employees that vehicle wash water is prohibited from entering the storm drain system. Received warning.
OEQ 46176	1/30/2014	1/30/2014	3201 Landover St.	Water main break.	Contacted Virginia American Water and was informed that a large water main break recently occurred at 3201 Landover Street. Confirmed that this was source of discoloration in FMR. Repairs under way.

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Tracking ID	Date Initiated	Date Closed	Problem Address	Incident	Narrative and Result
FIR2014- 00188	1/31/2014	1/31/2014	600 N Henry St.	Fuel spill in road.	Fuel spill in street as result of vehicle accident at corner of N. Henry and Pendleton. Issued NOV to conduct cleanup.
OEQ 46174	2/14/2014	2/14/2014	1121 N Howard St.	Untreated groundwater being discharged into storm drain.	Contractors working on a retaining wall are discharging pumped groundwater into the storm drain directly without the required pretreatment. Contractor was required to use filter bags for pretreatment prior to discharge.
OEQ 46641	2/21/2014	2/24/2014	327 N Pickett St.	Bluish, cloudy substance in stream.	Investigation showed no sign of anything being dumped into the stream. Unable to determine source. Discharge was not visible during a reinvestigation- will monitor area.
FIR2014- 00259	2/25/2014	2/26/2014	4322 Vermont Ave.	Dumping of construction materials in stream.	Spoke with contractor who was digging in rear yard to repair sump pump line. Issued NOV for cleanup of material from stream and streambank within 24 hours. Warned contractor about illicit dumping of material and potential penalties.
FIR2014- 00342	2/27/2014	2/28/2014	5000 Polk Ave.	Spilled milk washed into storm drain.	Responded to the intersection of Holmes Run Pkwy and S Pickett Street and met staff from VDEQ whom was responding to a complaint VDEQ received on 2/21/14 about a white substance at the creek. There was still evidence of this white substance up stream but am not sure if this was the same substance from a week ago. Source was traced to the loading dock at Polk Elementary School. It appears this was milk that may have spilled from the dumpster and then washed down into the storm drain by the loading dock. The school principal was made aware of the situation and passed the information on to the Superintendent of Schools and to the Director of School facilities. Director of Facilities has sent an email to Polk School and they have been instructed not to wash anything on the loading dock where the storm drain is located. Storm drain placards were installed at this school, and will be working to install at other schools.
OEQ 47719	3/12/2014	3/12/2014	333 N Royal St.	Construction debris dumped on top of storm drain inlet.	Observed construction debris (crushed brick, concrete) on top of a curb inlet at the corner. FM issued NOV for contractor removed material.
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	Date		Problem		
Tracking ID	Initiated	Date Closed	Address	Incident	Narrative and Result
FIR2014- 00488	3/17/2014	3/19/2014	111 W Nelson Ave.	Report of a oily substance on the sidewalk	Observed substance coming from sump pump. Chemical test strip showed substance was not petroleum based. Sump pump drain is clogged, causing water to flow over sidewalk. Referred to Code Administration.
FIR2014- 00489	3/17/2014	3/19/2014	1116 King St.	Washing floor mats in alley.	Arrived on the scene and spoke to the 3 restaurant owners in this alley. There was evidence that a water hose had been used but the there was no oily residue present. Advised owners to speak to staff about washing anything containing grease or oil in the alley.
FIR2014- 00490	3/17/2014	3/19/2014	1118 King St.	Washing floor mats in alley.	Arrived on the scene and spoke to the 3 restaurant owners in this alley. There was evidence that a water hose had been used but the there was no oily residue present. Advised owners to speak to staff about washing anything containing grease or oil in the alley.
FIR2014- 00491	3/17/2014	3/19/2014	1120 King St.	Washing floor mats in alley.	Arrived on the scene and spoke to the 3 restaurant owners in this alley. There was evidence that a water hose had been used but the there was no oily residue present. Advised owners to speak to staff about washing anything containing grease or oil in the alley.
OEQ 50233	4/25/2014	4/29/2014	3020 Duke St.	Vehicles being washed outside in parking lot.	FM spoke with manager of auto dealer and explained to him that wash water discharge is not allowable into a storm drain. Received warning.
OEQ 50230	4/28/2014	4/29/2014	3050 Duke St.	Carpet washing in parking lot of Dunkin Donuts.	Spoke to employees at this location and explained that washing of any type outdoors is prohibited from entering the storm drain system. FM also spoke with store manager the following day. Received warning.
OEQ 50305	4/30/2014	5/7/2014	4209 Elmwood Drive	Barrier for contaminate d soil has broken in neighbor's yard, possibly entering storm sewer.	Address is not located within City. Complaint was forwarded to Fairfax County.

Tracking ID	Date Initiated	Date Closed	Problem Address	Incident	Narrative and Result
OEQ 50560	5/5/2014	5/7/2014	5420 Bradford ct.	Broken sanitary lateral in stream.	Observed broken lateral in middle of stream, active intermittent discharge. The lateral serves private mutli-family residential apartment building. Property management was informed of the break emergency repairs were performed by contractor. Property management informed VDEQ of SSO.
FIR2014- 00660	5/6/2014	5/6/2014	605 N Alfred St.	Report of cooking oil spilled in rear yard	Was told by a home care provider that frying oil was discarded in the rear yard by owner. There was no evidence of a spill, but observed a 5 gallon can of cooking oil in the rear yard. Instructed the owner to properly dispose of product. Delivered a letter stating that city code 11-13-2 Illegal Dumping Prohibited.
OEQ 51083	5/7/2014	5/7/2014	632 S Pickett St.	Dumping of concrete cutting waste water into parking lot of auto body shop.	Observed contractors cutting concrete flooring inside building, wet-saw discharge water flowing outside into the storm drain. FM spoke to contractor (Taylor & Associates) and gave NOV for immediate cleanup of parking lot. Contractor was warned that no discharge of any type other than rainwater is allowed. Follow-up visit verified that the cleanup was complete.
OEQ 50704	5/7/2014	5/7/2014	707 E Timber Branch Pkwy.	Organic sheen in sump pump discharge in gutter.	Oily substance was determined to be organic and not an illicit discharge. Storm drain is clogged and reported to maintenance.
FIR2014- 00704	5/20/2014	5/20/2014	25 W Reed Ave.	Washing of dumpster waste water and food debris into storm drain.	Found that Cora Kelly Elementary staff had washed down the area behind the school kitchen. Spoke with school staff and informed them that nothing is allowed to be washed into a storm drain. FM gave verbal warning and required immediate cleanup of the materials in and around the inlet. City will assist in developing "No Dumping" signs in both English and Spanish to be installed at ACPS schools near water hose spigots and around outdoor dumpster areas. City will also provide ACPS with periodic training on good housekeeping and pollution prevention.

Tue sking ID	Date	Date Closed	Problem	Incident	November and Donald
Tracking ID FIR2014- 00706	Initiated 5/21/2014	5/22/2014	Address 101 E Monroe Ave.	Washing paint into storm drain.	Upon investigation, determined that painters had been at this property on over the weekend and had washed their paint brushes near the driveway creating a white substance. The paint residue was still visible in a puddle of water in driveway. Spoke with painting contractor and tile contractor and advised them not to paint or cut tile in the driveway, as the white dust also appear to be paint. Issued NOV for painting contractor to clean up paint residue.
OEQ 51790	5/22/2014	6/13/2014	3425-A King St.	Reported oil/gas sheen visible in street during rainfall.	Upon several investigations, no evidence of any sheen or gasoline runoff was observed.
FIR2014- 00711	5/23/2014	5/23/2014	110 Adams Ave.	Dumping of pool water onto street.	Observed pool company discharging pool water onto street. Arrived on scene and advised contractor to redirect hose into grassy area. Called Hawaiian Pool & Spa owner and advised not to drain water onto street. Water did not contain any chemicals. OEQ forwarded City and State pool discharge guidelines to company.
OEQ 52438	6/3/2014	6/3/2014	Holmes Run, East of I-395	Sediment from construction site discharging into stream.	Observed large sediment laden discharge coming from VDOT I-395 project due to soil falling into an open drainage channel during excavation, which has a significant groundwater baseflow. VDOT project manager stated that E&S controls have been scheduled to be installed immediately. Passed on issue to the City's VDOT project liaison for follow-up.
FIR2014- 00755	6/6/2014	6/6/2014	311 N Henry St.	Automotive oil storage tank spill.	Observed an oil stain in the alley behind property on the fence and on the ground. Source was determined to be from improper transfer of material from containers into a large oil storage tank. Issued owner a NOV to get an environmental contractor to clean-up the area, and he was advised to either cover or relocate the storage tank.
OEQ 52889	6/11/2014	6/11/2014	3137 Colvin St.	Dumping of dirty wash water in parking lot.	Observed employee of tire repair center dumping tire wash water outside in parking lot. FM gave employee and owner verbal warning to no longer dump anything outdoors.

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Tracking ID	Date Initiated	Date Closed	Problem Address	Incident	Narrative and Result
OEQ 53068	6/13/2014	6/13/2014	Holmes Run, Northwest of I-395	Water main break.	Tracked source of cloudy grey discharge to be coming from a water main break located upstream at Sanger Avenue. The discharge contained sediment and clay from the fill that was eroded with the main break. Emergency repairs are currently under way and should be completed soon.
FIR2014- 00802	6/26/2014	7/16/2014	3311 Alabama Ave.	Fuel oil spill.	Incident occurred on June 19 and VDEQ was notified. VDEQ is determining if the State or homeowner is responsible for cleanup costs. Upon investigation it was determined that during removal of an abandoned fuel tank, the tank collapsed and released product onto floor in garage, which was washed into back yard. FM issued a NOV to properly dispose of 15 - 5 gallon buckets of captured fuel oil and to properly clean up area in back yard.
OEQ 55006	6/30/2014	6/30/2014	514 Janey's Lane	Dumping of pool water onto street.	Upon investigation upstream of outfall pipe, observed a pool company discharging pool water directly into storm drain. FM informed pool cleaning company owner regarding the City and State pool discharge guidelines, and gave the owner a verbal warning to follow guidelines.
OEQ 55519	7/21/2014	7/21/2014	1116 King St.	Washing machine discharge connected to sump pump, discharging to street.	Determined source is from recently installed washing machine directed to sump pit in basement floor. FM informed restaurant manager that connection to sump pump is not allowed, must be connected to sanitary and a plumbing permit is required. Forwarded to Code Administration. FM gave verbal warning to manager to stop any washing until the connection to the sanitary is complete.

4. MINIMUM CONTROL MEASURE #4 - CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

The following table is a summary of activities for Minimum Control Measure #4 and their PY1 completion status. Additional detail is provided after the table and in Appendix D.

Table 10. Minimum Control Measure #4 Activities Summary and Status

ВМР	Year	Measurable Goal	PY1 Status
4A Maintain DEQ Erosion an	d Sedim	ent Control Program Consistency	
Maintain E&SC program consistency with State regulations.	All	Document the City's consistent E&SC program, based on DEQ standards.	✓ Complete
Review City's Erosion and Sediment Control Ordinance to ensure it is consistent with the City's Updated Environmental Management Ordinance.	PY1	Update City's E&S ordinance as necessary to be consistent with Environmental Management Ordinance.	✓ Complete. Changes and updates to the City's Erosion and Sediment Control Ordinance are expected to be adopted in Fiscal Year 2015.
4B VPDES Permits for Constr	ruction A	Activities	
Ensure that all construction site owners and operators secure a separate VPDES stormwater permit for construction activities.	All	Legal authority requiring a VPDES permit before the start of land disturbing activities is found in Section 13-111 of the City's Environmental Management Ordinance.	✓ Complete
Incorporate language into the City's plan review checklist to alert those proposing a land disturbing activity that all permits must be in place prior to release of the final site plan.	All	Document that plan review checklists incorporated language alerting those submitting development plans that all permits must be in place prior to final site plan release.	✓ Complete

ВМР	Year	Measurable Goal	PY1 Status			
4C Site Inspections for Land	Disturbi	ng Activities				
Perform site inspections for land disturbing activities according to the schedule given in the City's policies and procedures document, and Section II.B.4.c.(2) of the MS4 permit.	All	Document total number of inspections conducted, and a summary of enforcement actions including total number and type of action.	✓ Complete			
4D Citizen Complaint Report	4D Citizen Complaint Reporting Mechanism					
Log citizen's complaints concerning erosion and sediment control violations into the City's database for follow up by City staff.	All	Provide a summary of all complaints received during the reporting year.	✓ Complete			
4E Land Disturbing Activitie	s Trackii	ng System				
Maintain a database log for tracking all land disturbing activities in accordance with permit requirements.	All	Provide a summary of all land disturbing activities and the total acres of land disturbed for the reporting year.	✓ Complete			

BMP 4A - MAINTAIN DEQ EROSION AND SEDIMENT CONTROL PROGRAM **CONSISTENCY**

The City has continued to maintain its consistency with Virginia's Erosion and Sediment Control Regulations since the Virginia Department of Conservation and Recreation last performed a review of the City's Erosion and Sediment Control Program in December 2006. The City began reviewing its Erosion and Sediment Control Ordinance in PY1, to ensure that it is consistent with its new Environmental Management Ordinance, and the new Virginia stormwater regulations. Changes and updates to the City's Erosion and Sediment Control Ordinance are expected to be adopted in Fiscal Year 2015 (FY15).

Documentation and Measure of Effectiveness

During PY1, the City formalized its policies and procedures for its Erosion and Sediment Control Program, and performed a review of its E&S ordinance to ensure it complies with the City's updated Environmental Management Ordinance. The City's Policies and Procedures for Construction Site Runoff Control Inspections are documented in the City's updated MS4 Program Plan.

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BMP 4B - VPDES PERMITS FOR CONSTRUCTION ACTIVITIES

In accordance with Section II.B.4.b of the City's MS4 permit, all construction site owners and operators must secure a separate VPDES stormwater permit for construction activities. In PY1, the City incorporated language into its plan review checklist to alert those proposing a land disturbing activity that all permits must be in place prior to the release of the final site plan. A copy of the plan review checklist is provided in the City's updated MS4 Program Plan.

Documentation and Measure of Effectiveness

During PY1, the City amended its Environmental Management Ordinances to require a VPDES permit before land disturbance activities commence. In addition, the City amended its formal plan review policies and procedures, incorporated language into its plan review checklist to alert those proposing a land disturbing activity that all permits must be in place prior to release of the final site plan. The City's plan review policies and procedures as well as checklists used during plan reviews can be found in the updated MS4 Program Plan.

BMP 4C - SITE INSPECTIONS FOR LAND DISTURBING ACTIVITIES

The City shall conduct inspections of land disturbing activities in accordance with the schedule given its policies and procedures document, and section II.B.4.c.2 of its MS4 permit.

Documentation and Measure of Effectiveness

During PY1, the City conducted inspections of land disturbing activities in accordance with its MS4 permit and the Virginia Stormwater Management Regulations. Enforcement actions included the following two Stop Work Orders.

- 1. On May 5, 2014, a first Notice to Correct was issued to 2702 N. Rosser St. GRD2013-00025. The Responsible Land Developer (RLD) failed to correct the deficiencies, and a Stop Work Order was issued on May 14, 2014. A follow-up inspection was performed on May 19, 2014. The follow-up inspection demonstrated that the RLD complied with the Notice to Correct and a Release of Stop Work Order was issued.
- 2. On June 11, 2014, a Stop Work Order was issued to 3309 Russell Road—BLD 2013-00343—for exceeding allowable land disturbance conditions. On August 25, 2014 a Release of Stop Work Order was issued, based on an approved grading plan dated August 18, 2014 (GRD2015-00001).

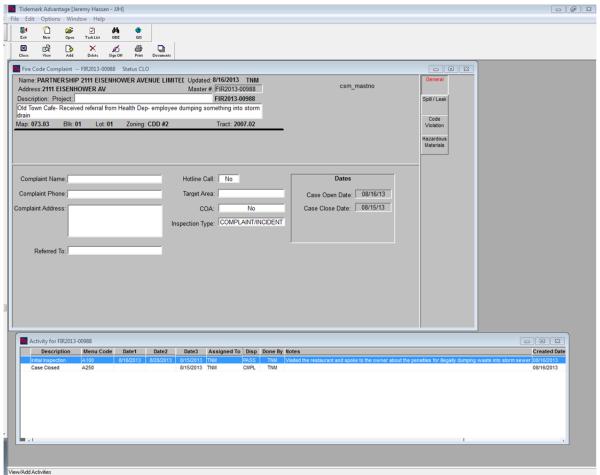
BMP 4D - CITIZEN COMPLAINT REPORTING MECHANISM

As with illicit discharges and illegal dumping, the City logs complaints of erosion and sediment control violations into its tracking databases. Citizens may use the City's Nuisance Abatement Hotline or Call, Click, Connect on the City's website to file complaints concerning erosion and sediment control violations. In addition they may also call the Construction & Inspection division directly or the City's 311 Call Center.

Complaints to the Nuisance Abatement Hotline, Call.Click.Connect, or the City's 311 Call Center are logged into Cityworks™ for tracking by T&ES-S&SI staff. Calls to the T&ES-C&I division are logged

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into the City's "PERMIT-PLAN" software database. Both systems can be used to generate reports for annual reporting purposes.



Complaint tracking is performed using an integrated database system from the initial report to final case closure.

Documentation and Measure of Effectiveness

During PY1, 6 of the 46 complaints received by the City concerning illicit discharges and illegal dumping were related to construction site runoff, or erosion and sediment control violations. A summary of the complaints is provided in the table below. These complaints are also included in the summary table of illicit discharges investigated during PY1 under BMP 3H.

Table 11. Summary of Erosion and Sediment Control Complaints

Tracking	Date		Problem		
ID	Initiated	Date Closed	Address	Incident	Narrative and Result
FIR2013- 01412	12/18/2013	12/18/2013	421 E Braddock Rd.	Washing sediment into storm drain.	Landscaping contractor was washing sediment off the street and into storm drain. NOV issued for immediate cleanup of sediment and water from street and from around inlet. Spoke with supervisor and directed him to inform his workers to no longer wash anything into the storm drain.
FIR2014- 00259	2/25/2014	2/26/2014	4322 Vermont Ave.	Dumping of construction materials in stream.	Spoke with contractor who was digging in rear yard to repair sump pump line. Issued NOV for cleanup of material from stream and streambank within 24 hours. Warned contractor about illicit dumping of material and potential penalties.
OEQ 47719	3/12/2014	3/12/2014	333 N Royal St.	Construction debris dumped on top of storm drain inlet.	Observed construction debris (crushed brick, concrete) on top of a curb inlet at the corner. FM issued NOV for contractor removed material.
OEQ 50305	4/30/2014	5/7/2014	4209 Elmwood Drive	Barrier for contaminated soil has broken in neighbor's yard, possibly entering storm sewer.	Address is not located within City. Complaint was forwarded to Fairfax County.

Tracking	Date		Problem		
ID	Initiated	Date Closed	Address	Incident	Narrative and Result
OEQ 51083	5/7/2014	5/7/2014	632 S Pickett St.	Dumping of concrete cutting waste water into parking lot of auto body shop.	Observed contractors cutting concrete flooring inside building, wet-saw discharge water flowing outside into the storm drain. FM spoke to contractor (Taylor & Associates) and gave NOV for immediate cleanup of parking lot. Contractor was warned that no discharge of any type other than rainwater is allowed. Follow-up visit verified that the cleanup was complete.
OEQ 52438	6/3/2014	6/3/2014	Holmes Run, East of I-395	Sediment from construction site discharging into stream.	Observed large sediment laden discharge coming from VDOT I-395 project due to soil falling into an open drainage channel during excavation, which has a significant groundwater baseflow. VDOT project manager stated that E&S controls have been scheduled to be installed immediately. Passed on issue to the City's VDOT project liaison for follow-up.

BMP 4E - LAND DISTURBING ACTIVITIES TRACKING SYSTEM

The City continues to maintain a database log for tracking all land disturbing activities in accordance with permit requirements. T&ES-I&ROW is responsible for tracking and recording land disturbing activities, while T&ES-S&SI is responsible for providing the information to DEQ as required.

Documentation and Measure of Effectiveness

During PY1, the City's Land Disturbance Activities Tracking System logged 34.79 acres of Development Plans and 11.23 acres of Grading Plans, as summarized in the following table.

Table 12. Summary of Land Disturbing Activities

Plan Number	Project, Location, Owner	Date	Disturbed
			Acreage
DEVELOPMENT P	PLANS		
DSP2011-00029	Virginia Theological Sem.	7/27/2013	178,450 SF /
	New Chapel		4.097 ac
	3737 Seminary Road.		
	Protestant Episcopal Theological Seminary		
DCD2007 00000	3737 Seminary Rd, Alexandria VA 22314	7.44.6.4004.0	04.000.00.4
DSP2007-00009	Dominion Substation	7/16/2013	81,893 SF /
	North Alexandria Electrical Substation		1.88 ac
	521 E. Monroe Avenue		
	Virginia Power and Electric 2400 Grayland Ave, Richmond, VA 23220		
DSP2011-00021	PY LB L Multifamily	8/28/2013	78,845 SF /
D31 2011-00021	Potomac Yard	0/20/2013	1.810 ac
	2500 Main Boulevard		1.010 ac
	Bozutto Development Company		
	c/o Doris Gantos		
	7850 Walker Drive Suite 400		
	Greenbelt, MD 20770		
DSP2013-00005	Landmark Gateway Ph II	9/11/2013	59,162 SF /
	Landmark Gateway Ph II		1.36 ac
	631 S Pickett Street		
	Mill Creek Residential Trust		
	6110 Executive Blvd, Rockville, MD 20852		
DSP2012-00012	LB J Multifamily Potomac Yard (Landbay J)	9/12/2013	86,684 SF /
	1800 Main Line Boulevard		1.990 ac
	WP East Acquisitions, LLC		
	c/o Leonard Wood		
DSP2012-00011	8150 Leesburg Pike, Suite 501 Vienna, VA 22182	0 /20 /2012	277 704 SE /
DSP2012-00011	Jefferson Houston School	9/20/2013	376,794 SF / 8.65 ac
	Alexandria City 1501 Cameron Street		8.65 ac
	City of Alexandria		
	301 King Street, Alexandria VA 22314		
DSP2012-00018	Princess St. THs	10/24/2013	10 985 SF /
2012 00010	Prince Princess Street Townhomes		0.2522 ac
	813 Princess Street		0.2022 0.0
	Princess and Alfred, LLC		
	c/o Nathan Hamman		
	820 S 18th Street, Arlington, VA 22202		
DSP2012-00013	PY LB G Block H	11/5/2013	98,926 SF /
	Landbay G, building H		2.27 ac
	2900 Main Boulevard		
	The JBG Companies		
	4445 Willard Avenue, Chevy Chase, MD 2015		

Plan Number	Project, Location, Owner	Date	Disturbed Acreage
DSP2008-00005	PY Dog Park	11/27/2013	
2000 00005	Potomac yard Dog Park	11/2//2015	0.97 ac
	1400 Main Boulevard		0.57 ac
	Potomac Yard Development, LLC		
	10600 Arrowhead Drive, Suite 225, Fairfax, VA		
	22030		
DSP2011-00034	Prince St. Hotel	12/13/2013	-
	1620 Prince Street Hotel		0.438 ac
	1620 Prince Street		
	Carr 1620 Prince Street LLC		
	1455 Pennsylvania Avenue, Suite 100,		
	Washington, DC 20004		
DSP2012-00034	George Mason Elementary	1/6/2014	36,026 SF /
	Capacity Expansion		0.287 ac
	2601 Cameron Mill Road		
	Alexandria City Public Schools		
	c/o Thomas Mulcahy		
	4701 Seminary Road, Alexandria, VA 22304		
DSP2012-00024	Cromley Row	1/13/2014	21,120 SF /
	Development of 5 Townhomes		0.46 ac
	317 North Columbus Street		
	William Cromley		
	426 North Columbus Street Alexandria, VA 22314		
DSP2012-00029	The Middleton PH I	1/13/2014	13,520 SF /
	Demolition of existing improvements		0.31 ac
	333Royal Street		
	Cindy Tse		
	6056 Pimey Run Drive Alexandria, VA 22315		
DSP2012-00028	Eisenhower Block 19	3/12/2014	211,102 SF /
	Multi-Story Building, Ground/Underground		4.885 ac
	Parking		
	3101 Jefferson Davis Hwy		
	Paradigm Development Company		
	c/o Micheline Caston-Smith		
	1415 North Taft Street Suite 100, Arlington, VA		
	222201		
DSP2013-00018	Hoffman Block 8(NSF)	4/11/2014	107,964 SF /
	Office Building, Retail, Underground Parking		2.48 ac
	2401 Eisenhower Avenue		
	Hoffman Company LLC		
	2461 Eisenhower Avenue		
DCD2042 0002=	Alexandria, VA 22331	4 /12 /2014	24 274 05 /
DSP2012-00027	Four Mile Run Pump Station		31,371 SF /
	Pump Station Upgrade		0.72 ac
	3650 Commonwealth Avenue		
	Alexandria Renew Enterprises		
	1501 Eisenhower Avenue Alexandria, VA 22314		

Plan Number	Project, Location, Owner	Date	Disturbed Acreage
DSP2011-00028	Jackson Crossing	5/2/2014	39,204 SF /
	5-Story Multifamily Building 118 East Reed Street		0.90 ac
	AHC, Inc.		
	c/o John Welsh		
	2230 North Fairfax Drive, Suite 100 Arlington, VA		
	22201		
DSP2013-00010	The Dorn Building	6/10/2014	22,028 SF /
	Redevelop Pumping Station into mixed		0.5057 ac
	office/retail building		
	529 East Howell Street		
	Hopewell Properties LLC		
	c/o Erik Dorn		
	1200 Chadwick Avenue, Alexandria, VA 22314		
	(ADMINISTRATIVE REVIEW)		_
GRD2013-00025	Meadow Creek	7/9/2013	27,604 SF /
	Meadow Creek Waterline Improvement		0.63 ac
	5443 Ascot Court		
	JBG/Landbay G LLC		
CDD2042 00022	4445 Willard Avenue, Chevy Chase, MD 2015	7/11/2012	11 225 (0.05)
GRD2012-00023	The Fountains Condominium	7/11/2013	11,325.60 SF / 0.26 ac
	Fountains – Swimming Pool Upgrade		0.26 ac
	301 N Beauregard Street The Fountains Condominium		
	301 N Beauregard Street Alexandria, VA 22312		
GRD2013-00028	VA Theological Seminary	7/11/2013	20,965 SF /
unb2015 00020	Playground Improvements	,,11,2010	0.4813 ac
	3737 Seminary Road		011010 40
	Protestant Episcopal Theological Seminary		
	3737 Seminary Road Alexandria, VA 22312		
GRD2013-00021	Anco Addition to GW Park	7/24/2013	8,636 SF /
	New Single Family Dwelling		0.1983 ac
	635 Putnam Place		
	Shellie Grant		
	635 Putnam Place Alexandria, VA 22302		
GRD2013-00032	Brown Property	8/26/2013	13,570 SF /
	Pool/Deck		0.3115 ac
	317 Mansion Drive		
	Reginald Brown		
CDD2014 00004	317 Mansion Drive Alexandria, VA 22302	10/0/2012	10.010.0 CE /
GRD2014-00001	Demolition only	10/8/2013	10,018.8 SF /
	Demolish Single Family Dwelling		0.23 ac
	1137 Palmer Place Chris Chukwu		
	11990 Market Street Apt. 1406, Reston, VA 20190		

Plan Number	Project, Location, Owner	Date	Disturbed Acreage
GRD2014-00002	Bev. Hills Church Preschool	10/22/2013	
unb2011 00002	Replace Playground Equipment		0.3161 ac
	3512 Old Dominion Boulevard		0.0101 40
	Beverley Hills Community United Methodist		
	Church		
	3512 Old Dominion Boulevard Alexandria,		
	VA22305		
GRD2014-00006	419 E. Custis	12/6/2013	5,761 SF /
	New Single Family Dwelling		0.1323 ac
	419 E. Custis Avenue		
	Ernice Wimms		
	419 E. Custis Avenue Alexandria, VA 22301		
GRD2014-00007	2504 Crest St	12/19/2013	9,555 SF /
	New Single Family Dwelling		0.2194 ac
	2504 Crest Street		
	Michael Heisley		
	3 First National Plaza Suite 560, Chicago, IL 60602		
GRD2014-00011	Episcopal High School	1/14/2014	18,104 SF /
	Sidewalk Improvements		0.4156 ac
	1200 Quaker Lane		
	City of Alexandria		
GRD2014-00004	107 N. Donelson Street	2/3/2014	8,114 SF /
	New Single Family Dwelling		0.1863 ac
	107 N Donelson Street		
	Abdul Karim		
	5630 Black Avenue Pleasanton, CA 94566		
GRD2014-00010	438 Summers Drive	2/10/2014	10,360 SF /
	New Single Family Dwelling		0.2378 ac
	438 Summers Drive		
	Next Garden Real Properties Inc.		
	601 King Street Suite 250, Alexandria VA 22314		
GRD2014-00008	Westminster Presbyterian		14,651 SF /
	Walkways, Landscape, Site Improvements		0.336 ac
	2701 Cameron Mill Road		
	Westminster Presbyterian		
CDD2014 00000	2701 Cameron Mills Road Alexandria, VA 22302	2/21/2014	0.205.65.7
GRD2014-00009	309 E Monroe Ave		9,295 SF /
	New Duplex (309&311)		0.2134 ac
	309 E Monroe Street		
	Roy L Schwartz		
GRD2014-00005	1710 N Adams Street Alexandria, VA 22201	3/4/2014	9,698 SF /
UND2014-00005			9,698 SF / 0.2226 ac
	New Single Family Dwelling 728 Timber Branch Parkway		0.2226 ac
	Dumor Properties		
	P.O. Box 30113 Alexandria, VA 22310		
	r.o. Dox 30113 Alexaliulia, VA 22310		

Plan Number	Project, Location, Owner	Date	Disturbed Acreage
GRD2014-00019	PY LB J Construction Yard	3/18/2014	42,100 SF /
UKD2014-00017	Construction Laydown area for PY LB J	3/10/2014	0.966
	2601 Main Line Boulevard		0.700
	Potomac Yard Development, LLC		
	10600 Arrowhead Drive Suite 225, Fairfax, VA		
	22030		
GRD2013-00030	1400 Crestwood Drive	3/31/2014	7,900 SF /
	Addition		0.181 ac
	1400 Crestwood Drive		
	Ruben & Jennifer Ruben		
	1410 Crestwood Drive Alexandria, VA 22302		
GRD2014-00013	614 Oakland Terrace	4/4/2014	24,900 SF /
	New Single Family Dwelling w/pool		0.5716 ac
	614 Oakland Terrace		
	Peter Keefe & Deborah Wood		
	614 Oakland Terrace Alexandria, VA 22302		
GRD2014-00025	11 E Reed Ave	5/2/2014	6,982 SF /
	New single Family Dwelling		0.1582 ac
	11 E Reed Ave		
	Classic Cottages		
	5417 A Backlick Road Springfield VA 22151		
GRD2014-00028	Episcopal High School	5/2/2014	179,933 SF /
	Renovation of Turf field		3.97 ac
	1200 N Quaker Lane		
	Episcopal High School		
	1200 N Quaker Lane Alexandria, VA 22302		
GRD2014-00022	15 Russell Road	5/9/2014	4,916 SF /
	Modification to dwelling		0.113 ac
	15 Russell Road		
	Anjuli & Nalin Bamzai		
	15 Russell Road Alexandria, VA 22301		
GRD2014-00012	3739 Taft Avenue	5/19/2014	7,713 SF /
	Demolish/Build New Single Family Dwelling		0.1771 ac
	3739 Taft Avenue		
	Thomas & Elizabeth Bazel		
	6916 Spur Road Springfield, VA 22153		
GRD2014-00016	1110 Trinity Drive	5/21/2014	7,420 SF /
	Demolish/Build New Single Family Dwelling		0.1703 ac
	1110 Trinity Drive		
	Calvert Custom Homes		
	12656-C Lake Ridge Drive Lake Ridge, VA 22192		
GRD2014-00029	915 Vicar Lane	5/29/2014	9,535 SF /
	Residential Addition		0.219 ac
	915 Vicar Lane		
	Donnan Wintermute		
	915 Vicar Lane Alexandria, VA 22302		

Plan Number	Project, Location, Owner	Date	Disturbed
			Acreage
GRD2014-00026	25 N. Donelson Ave	6/16/2014	6,274 SF /
	New Single Family Dwelling		0.1440 ac
	25 N. Donelson Ave		
	Next Generation Real Properties		
	601 King Street Suite 250, Alexandria, VA 22314		

5. MINIMUM CONTROL MEASURE #5 - POST CONSTRUCTION STORMWATER MANAGEMENT

The following table is a summary of activities for Minimum Control Measure #5 and their PY1 completion status. Additional detail is provided after the table and in Appendix E.

Table 13. Minimum Control Measure #5 Activities Summary and Status

BMP/Task	Year	Measurable Goal	PY1 Status		
5A BMP Inventory					
Maintain an updated electronic database for stormwater management facility tracking, containing BMP information as required by the City's MS4 permit.	All	Provide a spreadsheet of all certified BMPs entered into the City's database during the permit year.	✓ Complete		
5B BMP Maintenance Agreements					
Ensure that all appropriate BMPs have legally executed BMP maintenance agreements.	All	Confirm ongoing compliance with this requirement.	✓ Complete		
5C Maintain Legal Authority					
Implement the City's Environmental Management Ordinance.	All	Document consistency by the Chesapeake Bay Local Assistance Board.	✓ Complete		
5D BMP Design Guidelines					
Ensure that the City's BMP design guidelines are consistent with the Environmental Management Ordinance and the requirements of the Virginia Stormwater Management Regulations.	All	Approved plans are consistent with the Virginia Stormwater management Regulations.	✓ Complete		

BMP/Task	Year	Measurable Goal	PY1 Status		
5E Public BMP Facility Inspection a	5E Public BMP Facility Inspection and Maintenance				
Inspect all publicly-owned BMP facilities—beginning inPY2 inspect them all annually	All	Document the number of public BMPs inspected and maintenance activities performed during the permit year.	✓ Complete		
5F Private BMP Facility Inspection and Maintenance					
Inspect each applicable privately- owned BMP facility at least once every five years.	All	Document the number of BMPs inspected each year and provide statistics on number of facilities requiring follow-up action.	✓ Complete		

BMP 5A - BMP INVENTORY

The City continues to track and log all BMPs constructed in the city with its database software, including the type of BMP, location, discharging water body, project number and number of acres treated.

Documentation and Measure of Effectiveness

During PY1, 48 BMPs were entered into the City's database. The BMP spreadsheet for PY1 is presented in Appendix E.

BMP 5B - BMP MAINTENANCE AGREEMENTS

In PY1, the City continued its process to ensure that development plans were not finalized without a BMP maintenance agreement. T&ES-I&ROW staff ensure that the BMP maintenance agreements are submitted during the site plan review process. T&ES-I&ROW staff review the agreements for completeness and enter the information into the City's database. T&ES-I&ROW staff are also responsible for executing and enforcing the agreements. Agreements are filed with the appropriate land records by the City Clerk of the Circuit Court.

Documentation and Measure of Effectiveness

A properly executed BMP maintenance agreement from PY1 is included in Appendix E.

BMP 5C - MAINTAIN LEGAL AUTHORITY

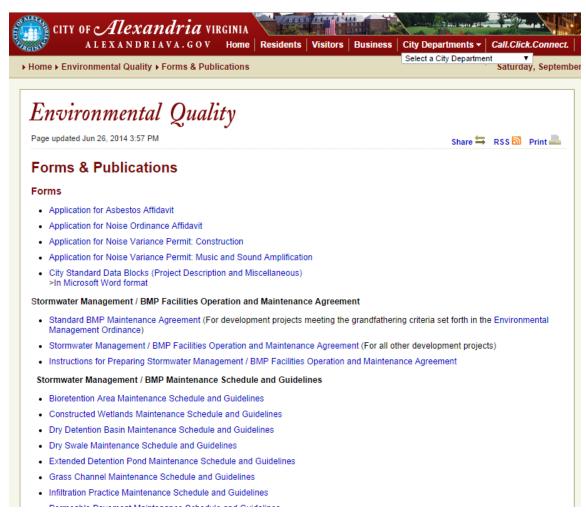
During the latest compliance evaluation on September 17, 2007, the Chesapeake Bay Local Assistance Board (now replaced by the Virginia Soil and Water Conservation Board) designated the City's Environmental Management Ordinance and related programs to be fully consistent with Phase I and II of the Chesapeake Bay Preservation Area Designation and Management Regulations.

During PY1, the City amended its Environmental Management Ordinance to remain consistent with the changes to Virginia's Stormwater Management Act. The City received provisional approval from DEQ based on the changes that were adopted by City Council on March 15, 2014. Additional minor revisions to accommodate DEQ comments received in May and legislative changes made in late March are anticipated to be approved by City Council in October of 2014 which will give the City full approval and VSMP authority.

Documentation and Measure of Effectiveness

A screen capture of DEQ's website showing the status of Alexandria's local program compliance is found in Appendix E. The City's amended Environmental Management Ordinance is included with the City's MS4 Program Plan.

BMP 5D - BMP Design Guidelines



BMP Design Guidance is available on the City's website, with Alexandria's supplements to the Northern Virginia BMP Handbook, maintenance agreements and schedules, and informational brochures and documents.

The City of Alexandria amended its Environmental Management Ordinance during PY1 to ensure the City's BMP design guidelines are consistent with the requirements of the Virginia Stormwater Regulations. Section 13-109 of the City's ordinance was amended to state that BMPs used for water quality and quantity control shall be evaluated for compliance using Virginia's Runoff Reduction Methodology, and shall be those established in 9VAC25-870-65 or found at the Virginia BMP clearinghouse website. In addition, the ordinance states that BMP use may be limited in accordance with policies established by the director of T&ES in accordance with 13-104(c) of the City Code.

The City will continue to evaluate its BMP guidelines and amend them as required to maintain consistency with the Virginia Stormwater Management Regulations.

Documentation and Measure of Effectiveness

The City's amended Environmental Management Ordinance is included in its MS4 Program Plan. Extensive guidance and support documents are served through the City's website at www.alexandriava.gov/3876.

BMP 5E - PUBLIC BMP FACILITY INSPECTION AND MAINTENANCE

During PY1, the City developed written policies and procedures for the inspection and maintenance of publicly-owned BMP facilities. In addition, the City developed an inspection program for its publicly-owned BMPs based on the Virginia Stormwater Management Regulations. The City's policies and procedures document for BMP inspections and maintenance is included with its MS4 Program Plan.

Documentation and Measure of Effectiveness

The City inspected 16 publicly-owned BMPs during PY1, as summarized in Table E-2 (Appendix E).

BMP 5F - PRIVATE BMP FACILITY INSPECTION AND MAINTENANCE

During PY1, the City developed written policies and procedures for the inspection and enforcement of maintenance for privately owned BMP facilities. The City's policies and procedures document for BMP inspections and maintenance is included with its MS4 Program Plan.

Documentation and Measure of Effectiveness

The City will inspect each applicable privately-owned BMP at least once every five years. During PY1, the City inspected 93 of the approximately 450 privately-owned BMP facilities in the City that require City inspection. A summary of the inspections is provided in Table E-3 (Appendix E).

Thirty-five of the private BMPs inspected did not require any maintenance. Fifty-eight of the BMPs required some maintenance, and the City sent letters to those owners notifying them that maintenance was required. Maintenance was performed on 23 of the BMPs requiring

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maintenance; thirty-five BMPs still need maintenance. During PY2, the City will be using its newly developed enforcement action policies and procedures backed by its Environmental Management Ordinance to ensure required maintenance is performed on privately owned BMPs.

6. MINIMUM CONTROL MEASURE #6 - POST CONSTRUCTION STORMWATER MANAGEMENT

The following table is a summary of activities for Minimum Control Measure #6 and their PY1 completion status. Additional detail is provided after the table and in Appendix F.

Table 14. Minimum Control Measure #6 Activities Summary and Status

BMP/Task	Year	Measurable Goal	PY1 Status	
6A Municipal High Priority Facility Identification				
Maintain a list of high- priority facilities as defined in the City's 2013-2018 MS4 permit.	All	All Provide updates to the list of municipal high-priority facilities identified by the City in its MS4 Program Plan.		
6B Stormwater Pollution F	revention	Plans for Municipal High Priority Fac	cilities	
Develop and implement SWPPPs at the City's high- priority facilities identified under BMP 6A.	Develop (PY1-PY4); Implement (by PY4)	Summarize the development and implementation of SWPPPs at the City's high-priority facilities.	✓ Completed	
6C Catch Basin and Inlet Cle	aning Pro	gram		
Continue the City's catch basin and inlet cleaning program.	All	Document the number of catch basins and inlets cleaned.	✓ Completed	
6D Turf and Landscape Ma	nagemen	t		
Identify municipal lands where nutrients are applied to a contiguous area of one acre or more. Develop and implement nutrient management plans on those identified municipal lands in accordance with the City's MS4 permit.		Document the total acres of municipal land requiring nutrient management plans. Document the number of acres of municipal land with an approved nutrient management plan in place. Provide a summary of the development and implementation of nutrient management plans on identified municipal lands.	✓ Completed	

BMP/Task	Year	Measurable Goal	PY1 Status	
6E Pollution Prevention Training				
Provide training to operations and maintenance employees on pollution prevention and illicit discharges on a biennial basis.	All	Provide documentation of employee training activities.	✓ Completed	
6F Pollution Prevention Pol	licies and	Procedures		
Develop written policies and procedures addressing daily practices that will minimize or prevent pollutant discharges from daily operations and municipal facilities.	PY2	Provide copies of the written policies and procedures with the PY2 Annual Report.	✓ On Schedule	

BMP 6A - MUNICIPAL HIGH PRIORITY FACILITY IDENTIFICATION

During PY1, the City developed a list of its high-priority municipal facilities in accordance with Section II.B.6.b.(1). of its 2013-2018 MS4 permit. The list of municipal high-priority facilities is provided in the City's MS4 program plan.

The City will continue to maintain the list of high-priority facilities, and report any updates in the annual reports.

Documentation and Measure of Effectiveness

The City finalized its list of high priority facilities in PY1. There are no updates to report.

BMP 6B - STORMWATER POLLUTION PREVENTION PLANS FOR MUNICIPAL HIGH-PRIORITY FACILITIES

The City's two internal stakeholder groups, the Stormwater Steering Committee, and the Stormwater Work Group, were established under the City's prior MS4 permit, to address Virginia's new stormwater management regulations, the City's new MS4 permit, and its Chesapeake Bay TMDL requirements.

The two groups were actively involved in the development of the City's high-priority facility list, and selecting which of the facilities require SWPPPs in accordance with the MS4 permit.

The City and its internal stakeholders are currently prioritizing the order in which the SWPPPs are to be developed for the listed facilities, as well as the schedule for development to complete

development of the required SWPPPs by the end of PY4. Development of the SWPPPs is to begin with the City's Transportation Division Sign Shop, located at 3220 Colvin Street.

Documentation and Measure of Effectiveness

The list of facilities requiring SWPPPs is included in the City's MS4 Program Plan. Table F-3 in Appendix F of the Program Plan will be updated with the SWPPP locations as they are developed and implemented. Meeting agendas from the Stormwater Steering Committee and the Stormwater Work Group are included in Appendix F of this Annual Report.

BMP 6C - CATCH BASIN AND INLET CLEANING PROGRAM

During PY1, the City continued its inspection and catch basin and inlet cleaning program. The purpose is to reduce trash, floating debris, sediment, etc. trapped in catch basins and inlets from reaching downstream waterways, as well as prevent localized flooding and maintenance issues caused by blockages in pipes and stormwater structures. The amount of material removed annually varies, based on the weather.

Documentation and Measure of Effectiveness

The City cleaned and inspected 2,578 catch basins and inlets during PY1.

BMP 6D - TURF AND LANDSCAPE MANAGEMENT

During PY1, the City identified municipal lands where nutrients are applied to areas of one contiguous acre or more, and for which nutrient management plans will need to be developed and implemented. As with the development of SWPPPs under BMP 6B, the City and its internal stakeholders are currently prioritizing the order of nutrient management plan development based on the permit requirements. By the end of PY2, a minimum of 15% of the acres of municipal lands requiring nutrient management plans must have a certified plan in place. During PY1, the City determined that the first nutrient management plan to be developed will be for Ben Brenman Park.

Documentation and Measure of Effectiveness

The list of municipal lands where nutrient management plans are required is included in Appendix G of the City's MS4 Program Plan and is also included in the table below. There have been no updates to the list since its inclusion in the City's Program Plan.

Table 15. Municipal Land Requiring Nutrient Management Plans

Street Address	Facility	Latitude, Longitude
4200 Eisenhower	Joseph Hensley Park	38°48'12"N, 77° 6'29"W
4800 Duke Street	Ben Brenman Park	38°48'30"N, 77° 6'52"W
426 East Monroe Street	Simpson Park	38°49'18"N, 77° 3'4"W
3700 Commonwealth	Four Mile Run Park	38°50'24"N, 77° 3'34"W

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Street Address	Facility	Latitude, Longitude
1A Prince Street	Waterfront Park	38°48'12"N, 77° 2'21"W
351 North Union Street	Founders Park	38°48'27"N, 77° 2'20"W
501 South Union Street	Windmill Hill Park	38°47'58"N, 77° 2'30"W
2 Montgomery Street	Rivergate Park	38°48'46"N, 77° 2'17"W
200 Montgomery Street	Montgomery Park	38°48'51"N, 77° 2'27"W
100 Madison Street	Oronoco Bay Park	38°48'40"N, 77° 2'23"W
1001 Jefferson Street	Miracle Field	38°47'53"N, 77° 3'10"W
2501 Potomac Avenue	Potomac Yard Park	38°49'43"N, 77° 2'51"W
1426 Janneys Lane	President Gerald Ford Park	38°49'1"N, 77° 5'20"W

BMP 6E - POLLUTION PREVENTION TRAINING

The City continues to provide stormwater pollution prevention training workshops for operations and maintenance employees. The stormwater training covers a variety of good housekeeping and pollution prevention BMPs. All operations and maintenance employees also receive training to recognize and report illicit discharges. During PY1, the City provided training to T&ES and T&ES-Maintenance staff on stormwater pollution prevention and illicit discharge detection and elimination on June 3, 2014. In addition, the City made presentations on stormwater safety at the 2014 RP&CA Safety Conference on February 19th, and at the City's April 7th, 2014 Risk Management Committee meeting.

Documentation and Measure of Effectiveness

The June 3, 2014 sign in sheet and training room reservation form for the T&ES and T&ES-Maintenance staff training is provided in Appendix F. Screen captures with examples of the training content are also included. Appendix F also contains the stormwater presentation given to the Risk Management committee and at the RP&CA Safety conference, as well as the Risk Management Committee meeting agenda, and the RP&CA Safety Conference brochure.

BMP 6F - POLLUTION PREVENTION POLICIES AND PROCEDURES

The City currently operates under a number of policies and procedures, addressing daily practices at its municipal facilities to minimize or prevent pollutant discharges. During PY1, the City worked on developing a formal written document of good housekeeping and pollution prevention policies and procedures in accordance with its MS4 permit. The City will continue to develop and finalize these policies and procedures during PY2.

Documentation and Measure of Effectiveness

The City will provide copies of the written policies and procedures with the PY2 Annual Report.

D. EVALUATION AND ASSESSMENT OF BMPS

During PY1, the City was required to make updates to its MS4 Program Plan in accordance with the conditions set forth in its 2013-2018 MS4 permit. In order to update its MS4 Program Plan to meet the permit requirements, the City evaluated its current program, and assessed whether or not the minimum control measure BMPs employed were applicable to the new permit requirements. BMPs that were deemed not appropriate for the new permit conditions were removed from the Program Plan, while permit requirements not covered by an existing BMP resulted in the addition of a new BMP, or the modification of an existing BMP to comply with the permit requirements.

As a result of the required MS4 Program Plan update requirements, and the City's evaluation of its BMPs in meeting the 2013-2018 permit conditions, seven new BMPs were added to its Program Plan. Six BMPs were modified to meet the new requirements, and six BMPs were removed because they were no longer applicable to the permit requirements, or the requirement necessitating the BMP is no longer included under one of the six minimum control measures—as is the case with some requirements pertaining to Chesapeake Bay and Local TMDLs, for example.

The City feels the BMPs associated with its updated Program Plan are appropriate and meet the VSMP permit conditions. However, the City will continue to evaluate its BMPs and make adjustments to its program where deficiencies are noted, or updates are required to meet permit conditions.

E. RESULTS OF INFORMATION COLLECTED

The City was required to perform dry weather field screening on fifty priority outfalls during PY1. City staff from T&ES-S&SI prioritized and selected the outfalls to screen based on procedures found in the City's IDDE manual. Outfall field screening was performed between 05/19/2014 and 06/03/2014. The results of the field screening are summarized in the table provided under BMP 3H of this Annual Report.

No other information or monitoring was required during PY1.

F. SUMMARY OF PERMIT YEAR 2 PLANNED ACTIVITIES

The following table summarizes by minimum control measure the stormwater activities planned for PY2.

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Table 16. Stormwater Activities Planned for PY2

BMP/Task	Year	Planned Activity			
Minimum Control Measure #1 -	Minimum Control Measure #1 - Public Education and Outreach				
Continue ongoing programs and enhance as appropriate.	Ongoing	Ongoing			
Minimum Control Measure #2	- Public Involvem	ent and Participation			
Continue ongoing programs and enhance as appropriate.	Ongoing	Ongoing			
Minimum Control Measure #3	- Illicit Discharge	Detection and Elimination			
Continue ongoing programs and enhance as appropriate.	Ongoing	Ongoing			
Additional Actions:					
BMP 3G	2	Continue to update storm sewer system map and associated data tables to meet update requirements by the end of PY4.			
ВМР ЗН	2	Prioritize and perform dry weather outfall screening on 50 outfalls.			
Minimum Control Measure #4	- Construction Sit	e Stormwater Runoff Control			
Continue ongoing programs and	Ongoing	Ongoing			
Minimum Control Measure #5	– Post Constructio	n Stormwater Management			
Continue ongoing programs and enhance as appropriate.	Ongoing	Ongoing			
Additional Actions:					
BMP 5B	2-5	In PY2, the City will begin using a combination of homeowner outreach and education in lieu of BMP maintenance agreements for individual residential lots			
Minimum Control Measure #6 - Pollution Prevention/Good Housekeeping for Municipal Operations					
Continue ongoing programs and enhance as appropriate.	Ongoing	Ongoing			
Additional Actions:					
BMP 6B	2	Begin development of SWPPPs for municipal facilities, beginning with the City's Transportation Division Sign Shop, located at 3220 Colvin Street.			

BMP/Task	Year	Planned Activity
BMP 6D	2	Begin development and implementation of Nutrient Management Plans for municipal facilities, beginning with the City's Ben Brenman Park.
BMP 6F	2	Develop and implement written policies and procedures addressing daily practices at its municipal facilities to minimize or prevent pollutant discharges.

In addition to the stormwater activities related to the minimum control measures listed above, the City is planning the following activities in PY2:

- Development of TMDL Action Plans for Local TMDLs approved before July, 2008.
- Development of a Chesapeake Bay TMDL Action Plan
- Updating the MS4 Program Plan to include the Local TMDL and Chesapeake Bay TMDL Action Plans
- Updating the MS4 Program Plan to include SWPPPs and nutrient management plans developed during PY2, as well as the municipal good housekeeping policies and procedures required by MCM #6.

G. CHANGES IN IDENTIFIED BMPS OR MEASURABLE GOALS

As the MS4 Program Plan was updated in PY1 to meet the requirements of the City's new MS4 permit, no changes in the identified BMPs or measurable goals are anticipated during PY2. The Program Plan will be updated as required in accordance with the permit, as outlined in the Program Plan.

H. RELIANCE ON OTHER GOVERNMENT ENTITIES

The City of Alexandria continues to provide funding to the Northern Virginia Regional Commission to conduct supplemental public education and outreach activities (the regional Clean Water Partners program) and to maintain and update the Northern Virginia BMP Handbook.

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I. APPROVAL STATUS OF QUALIFYING LOCAL PROGRAMS

The City of Alexandria uses the Erosion and Sediment Control Ordinance, mandated by the Virginia Erosion and Sediment Control Regulations, to help satisfy Minimum Control Measure #4 - Construction Site Stormwater Runoff Control. In addition, the City uses the Environmental Management Ordinance, mandated by the Virginia Chesapeake Bay Preservation Area Designation and Management Regulations, to help satisfy Minimum Control Measure #5 - Post Construction Stormwater Runoff Control.

During PY1 the City amended its Environmental Management Ordinance to comply with the Virginia Chesapeake Bay Preservation Area Designation and Management Regulations. The City's amended ordinance was submitted for approval to VDEQ as part of the City's VSMP Local Stormwater Management Program Application. The ordinance was adopted by the Alexandria City Council on March 15th, 2014. The final VSMP application was submitted by the City prior to April 1, 2014 and approved by VDEQ. The City's status as a VSMP authority became effective as of July 1, 2014.

The City has maintained an Erosion and Sediment Control Program that was found to be consistent with Virginia's Erosion and Sediment Control Regulations by the Virginia Soil and Water Conservation Board. To maintain this consistency, the City began reviewing its Erosion and Sediment Control Ordinance during PY1 to ensure it is consistent with its newly amended Environmental Management Ordinance, and the new stormwater regulations. Amendments to the City's Erosion and Sediment Control Ordinance to keep it consistent with the new state regulations and the City's Environmental Management Ordinance are expected to be adopted in the fall of 2014.

J. Information Required for Applicable TMDL Special Conditions

The City currently has four local TMDLs for impaired waters receiving stormwater runoff from Alexandria's regulated MS4. A bacteria TMDL for fecal coliform was approved in 2002 for the non-tidal portion of Four Mile Run, and in 2007, a TMDL for PCBs was approved for the Tidal Potomac watershed. In 2010, the Environmental Protection Agency approved two new bacteria TMDLs. One for the Tidal Four Mile Run watershed and one for the Hunting Creek, Cameron Run, and Holmes Run watersheds. In both recent TMDLs, bacterial water quality is based on levels of *E. coli*.

In addition to the Local TMDLs described above, Alexandria has a Chesapeake Bay TMDL for nutrients, specifically total nitrogen, total phosphorus, and total suspended solids. The pollutant load reductions required under the Chesapeake Bay TMDL have been incorporated into the City's MS4 permit.

The City's MS4 permit requires the City to develop and implement TMDL Action Plans for those local TMDLs that were approved prior to July of 2008, as well as a Chesapeake Bay TMDL Action Plan by the end of PY2. Action plans for local TMDLs approved between July 2008 and June 2013 must be developed and implemented by the end of PY3.

The City of Alexandria began developing its Chesapeake Bay TMDL Action Plan in January of 2013, with the formation of the City's Stormwater Steering Committee and the Stormwater Work Group. A draft of the City's Phase I (5%) Action Plan was produced in February of 2014. The State's Chesapeake Bay TMDL action plan guidance document was issued by DEQ on August 18, 2014. DEQ guidance on developing local TMDL action plans is still forthcoming.

The Chesapeake Bay and Local TMDL Action Plans will be developed in accordance with the City's MS4 permit, and the City's MS4 Program Plan will be updated accordingly. Annual reporting requirements for local and Chesapeake Bay TMDLs will be specified in the Action Plans and will be included with the appropriate Annual Report. No information was required for TMDL special conditions in this PY1 Annual Report.



